FINAL REMOVAL ACTION REPORT

FOR THE GULFCO MARINE MAINTENANCE SUPERFUND SITE FREEPORT, TEXAS

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LIST OF ACRONYMS

ACM - Asbestos Containing Material

AST – Aboveground Storage Tank

BHHRA – Baseline Human Health Risk Assessment

COD - Certificate of Destruction

EEI - Effective Environmental, Inc.

EPA - United States Environmental Protection Agency

FSP - Field Sampling Plan

GRG - Gulfco Restoration Group

NPL - National Priorities List

OVM - Organic Vapor Meter

PCE - Tetrachlorethene

PBW - Pastor, Behling & Wheeler, LLC

ppmv - parts-per-million by volume

RI/FS - Remedial Investigation/Feasibility Study

SVOC - Semi-Volatile Organic Compound

TCEQ - Texas Commission on Environmental Quality

TCE - Trichloroethene

VOC – Volatile Organic Compound

REMOVAL ACTION CERTIFICATION

Under penalty of law, I certify that to the best of my knowledge, after appropriate inquiries of all relevant persons involved in the preparation of the report, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Eric F Pastor, P.E. P.E. No. 67019 Principal Engineer Pastor, Behling & Wheeler, LLC

1.0 INTRODUCTION

The United States Environmental Protection Agency (EPA) named the former site of Gulfco Marine Maintenance, Inc. (Gulfco) in Freeport, Brazoria County, Texas (the Site) to the National Priorities List (NPL) in May 2003. On October 26, 2010, the EPA filed and executed an Administrative Settlement Agreement and Order on Consent for Removal Action (Settlement Agreement) (EPA, October, 2010) addressing the former aboveground storage tank farm (AST Tank Farm) located in the southern portion of the Site. The Settlement Agreement required the removal of ASTs that contain hazardous substances from the barge cleaning operations, in accordance with the Removal Action Work Plan included as Appendix D of the Settlement Agreement (included as Appendix A to this report). Pastor, Behling & Wheeler, LLC (PBW), coordinated the Removal Action of behalf of the Settlement Agreement Respondents LDL Coastal Limited LP (LDL), Chromalloy American Corporation (Chromalloy), and The Dow Chemical Company (Dow), collectively known as the Gulfco Restoration Group (GRG), and Parker Drilling Company, which, while not a Respondent to the Settlement Agreement, recently reached an agreement to participate with the Respondents in the Removal Action. Figure 1 provides a map of the Site vicinity, while Figure 2 provides a Site map.

1.1 PURPOSE

Pursuant to Paragraph 42 of the Settlement Agreement, this Removal Action Final Report summarizes the actions taken to comply with the Settlement Agreement, in accordance with the Removal Action Work Plan (Appendix A). Specifically this report documents removal and proper disposal of hazardous liquids and solids contained in the ASTs; removal, demolition and disposal of the tanks in the AST Tank Farm; and decontamination of the AST Tank Farm containment areas.

1.2 SITE BACKGROUND

The Site is located in Freeport, Texas at 906 Marlin Avenue (also referred to as County Road 756) (Figure 1). The Site consists of approximately 40 acres within the 100-year coastal floodplain along the north bank of the Intracoastal Waterway between Oyster Creek approximately one mile to the east and the Texas Highway 332 bridge approximately one mile to the west. Marlin Avenue divides the Site into two primary areas (Figure 2). For the purposes of

descriptions in this report, Marlin Avenue is approximated to run due west to east. The property to the north of Marlin Avenue (the North Area) contains some upland areas created from dredge spoil, but most of this area is considered wetlands. The North Area is not addressed by this report. The 20-acre upland property south of Marlin Avenue (the South Area) was created from dredged material from the Intracoastal Waterway and developed for industrial uses. It contains multiple structures, a dry dock, two barge slips connected to the Intracoastal Waterway, and the AST Tank Farm, which is the subject of this report.

The AST Tank Farm consisted of two adjacent concrete beamed areas, referred to hereafter as the North Containment and the South Containment Areas. Six ASTs were located in the North Containment Area (a seventh tank, Tank No. 100, which was empty, was removed from the Site in September 2008 by Hurricane Ike storm surge), and eight ASTs were located in the South Containment Area. The tank locations and designations are shown on Figure 3, and the tanks and their contents are summarized in Table 1. The tanks were used to store product heels and wash waters associated with barge cleaning operations.

The South Area is zoned as "W-3, Waterfront Heavy" by the City of Freeport. This designation provides for commercial and industrial land use, primarily port, harbor, or marine-related activities. Restrictive covenants prohibiting any land use other than commercial/industrial and prohibiting groundwater use have been filed for all parcels within both the North and South Areas.

Adjacent property to the north, west and east of the North Area is unused and undeveloped. Adjacent property to the east of the South Area is currently used for industrial purposes while the property directly to the west of the Site is currently vacant and previously served as a commercial marina. The Intracoastal Waterway bounds the Site to the south. Residential areas are located south of Marlin Avenue, approximately 300 feet west of the Site, and 1,000 feet east of the Site.

1.3 REPORT ORGANIZATION

The Removal Action Final Report has been organized to include information specified by the Settlement Agreement. A summary of the Removal Action is provided below in Section 2. Sampling and analysis activities performed during the Removal Action are discussed in Section 3. Removal Action conclusions are provided in Section 4. References are listed in Section 5.

Supporting documentation for the Removal Action, including photographs, waste disposal manifests, tank Certificates of Destruction (COD), laboratory analytical reports and other related reports/information, is provided in the report appendices.

Pursuant to Settlement Agreement requirements, a Draft Removal Action Report was submitted within 120 days of the Settlement Agreement Effective Date of October 29, 2010. Also per Settlement Agreement requirements, this Final Removal Action Report is being submitted within 14 days of receipt of EPA's March 9, 2011 letter approving (with modifications) that draft report. All tank content removal, tank decontamination, tank demolition and containment area decontamination field activities were completed within the 90 days of the Effective Date as also specified in the Settlement Agreement. However, due to a temporary suspension in operations at the incinerator used for disposal of hazardous solids generated during the Removal Action, nine roll-off boxes of hazardous solids could not be shipped from the Site to the disposal facility until after the 90-day deadline (January 27, 2011). A 30-day extension to this deadline was requested on January 26, 2011 and was granted by EPA on January 31, 2011. Additional delays in obtaining disposal "slots" at the incinerator required a second extension request to March 25, 2011, which was granted by EPA on February 23, 2011. Due to these delayed waste shipment dates, not all of the Removal Action supporting documentation described above has yet been received from the Removal Action contractor, Effective Environmental, Inc. (EEI). All such documentation that is not available for inclusion in this Final Removal Action Report will be submitted as addendum to the report.

2.0 REMOVAL ACTION SUMMARY

The Settlement Agreement provided for completion of all field activities within 90 days from the effective date of October 29, 2010. EEI mobilized equipment and materials to the Site and began field activities on November 15, 2010. EEI demobilized all equipment from the Site (except for the roll-off boxes awaiting disposal slots as described previously) on January 27, 2011.

The Removal Action included characterization and management of water accumulated in the AST Tank Farm containment areas; removal and disposal of liquid wastes from the tanks; and solidification, removal and disposal of non-liquid (solids and sludge) wastes from the tanks. Following wastes removal and tank decontamination, the tanks were demolished. The North and South Containment Areas were decontaminated and the concrete containment beams were breached so that rainfall will freely drain from the structures. Piping, metal "cat-walks", and a steel hopper-like structure located within the North Containment Area were demolished and removed. A metal walled structure located immediately to east of the North Containment Area was also demolished and removed. The Removal Action also included an asbestos survey, and the removal and disposal of debris located inside and east of the containment areas. The Removal Action is discussed below; photographs documenting the Removal Action are included in Appendix B.

2.1 MANAGEMENT OF ACCUMULATED WATER

In April 2010, PBW collected samples of accumulated water from the North and South Containment areas. Based on analytical results from these samples, PBW on behalf of the GRG, submitted an Industrial Wastewater Permit Application Abbreviated Technical Report to the Texas Commission of Environmental Quality (TCEQ) requesting discharge of accumulated water from the containment areas. On July 27, 2010, the TCEQ issued a letter to Gary Miller of EPA establishing criteria and authorizing discharge of accumulated water from the containment areas into the Intracoastal Waterway (Appendix C). Following confirmation that the pH of water in the containment areas met the discharge criteria and prior to commencing other Removal Action activities, approximately 15,000 gallons of water from the North Containment Area and approximately 13,500 gallons of water from the South Containment Area were discharged to the Intracoastal Waterway on November 15 and 16, 2010.

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Following a rain event at the Site in late December 2010 during performance of the Removal Action, accumulated water from both the North and South Containment Areas was sampled a second time on December 30, 2010. The analytical results from the sample collected from the South Containment Area met discharge criteria (Table 2); and a total of approximately 17,000 gallons of accumulated water were discharged from the South Containment Area to the Intracoastal Waterway on January 5, 6, and 10, 2010. The analytical results for the North Containment Area water sample did not meet discharge criteria (Table 2); and a total of approximately 6,800 gallons of impacted water were pumped from the North Containment Area into tanker trailers and transferred off-site for disposal. One tanker containing approximately 1,800 gallons of this impacted water was transported from the Site to the Clean Harbors, Deer Park facility on January 6, 2011 (included with other Site aqueous wastes). A second tanker containing approximately 5,000 gallons of impacted water from the North Containment Area was transported to Clean Harbors on January 27, 2011. A summary of liquid wastes shipments from the Site during the Removal Action is provided in Table 3, and available waste manifests documenting the transport of the aqueous wastes from the Site are provided in Appendix D.

A third water sample was collected from the North Containment Area on January 18, 2011, after excavation of impacted soils, removal of potentially impacted base material (caliche) from the floor of the containment area, backfilling of the excavated area, and Site restoration was completed (detailed below under Containment Area Decontamination). Analytical results from that water sample indicated that accumulated water in the North Containment Area after completion of the Removal Action, met discharge criteria (Table 2). Following receipt and evaluation of those analytical results accumulated water in the North Containment Area was released by breaching the containment area wall on January 27, 2011. The South Containment Area wall was breached on January 18, 2011 following decontamination and backfilling of the trenches with imported sandy clay soil as detailed in Section 2.6. Sampling locations and analytical results for the accumulated water samples are discussed in Section 3.0.

2.2 ASBESTOS INSPECTION

On November 16, 2010 Phase Engineering, Inc. performed an inspection for potential asbestos containing materials (ACM) within the former AST Tank Farm. Mr. Neal Barnes performed the inspection and collected samples of potential ACM at seven different locations. These samples included debris, gaskets and insulation material. A letter report summarizing the findings of the

asbestos inspection is provided in Appendix E. One of the samples collected by Mr. Barnes was found to contain friable asbestos. The asbestos was in a flange gasket located on the east end of Tank No. 10. In order to avoid disturbing this material during tank demolition, EEI used a cutting torch to cut the entire flange containing the gasket out of the end of Tank No.10 and placed the flange in a metal over-pack drum on December 9, 2010. The over-pack was transported to the EEI yard for temporary storage on January 27, 2011 and was disposed at the Waste Management Coastal Plains Landfill on March 22, 2011. Copies of EEI's demolition permit with the City of Freeport, the Texas Department of State Health Services Asbestos/Demolition Notification Form completed by EEI for this work, and related correspondence are included in Appendix E.

2.3 LIQUID WASTES HANDLING AND DISPOSAL

Removal of liquids from the ASTs was started on November 17, 2010 and completed on December 7, 2010. A tanker load of water transported to Clean Harbors on January 6, 2011 contained a mixture of water accumulated during tank decontamination; water recovered from tanks during sludge solidification and mixing; and impacted water from the North Containment area.

Liquids were removed from the ASTs using a pneumatic diaphragm pump, by inserting a suction hose directly in the tank to be drained and pumping into a tanker trailer. To the extent practical, aqueous liquids were separated from non-aqueous liquids (hydrocarbons), in order that hydrocarbons could be used for fuel blending at the disposal facility.

Removal of liquid wastes from the ASTs was performed using a closed discharge system, with the tanker air vent connected to a carbon canister. The "closed" pumping system, along with the carbon canister, was designed to control the release of fugitive emissions during pumping. Air monitoring was conducted using organic vapor monitors (OVM) during pumping activities to ensure criteria established in the Work Plan were not exceeded [sustained (more than 60 seconds) organic vapor measurements were to remain less than 10 part-per-million by volume (ppmv) in the work zone]. In order to minimize the potential for a release of hazardous liquids outside the containment areas, pumps and hoses were kept inside the concrete containment beams as much as possible and plastic liner was placed beneath hoses outside the containment beams. Tanker trailers were staged inside portable containment to mitigate the potential for a release at hose connections and valves on the tanker.

Approximately 2,300 gallons (21,760 pounds) of non-hazardous aqueous liquids were transported to the Waste Management Coastal Plains facility in Alvin, Texas for disposal. All hazardous liquids, both aqueous and non-aqueous, were transported to the Clean Harbors facility in Deer Park, Texas and disposed of by incineration. Three tanker loads of aqueous liquids were rejected by Clean Harbors due to the presence of viscous hydrocarbons in the load. In each case, these rejected loads were returned to the Site where aqueous liquids were pumped into one of the onsite ASTs for temporary storage, and the viscous hydrocarbons were removed from the tanker and added to sludge in one of the on-site ASTs and solidified.

During the Removal Action approximately 74,000 gallons (612,032 pounds) of aqueous liquids and approximately 14,000 gallons (117,820 pounds) of non-aqueous liquids (hydrocarbons) were transported to Clean Harbors for incineration. All waste liquids were transported from the Site by a licensed waste transporter. Table 3 provides a summary of the quantities and disposition of all liquid wastes removed from the ASTs. Available wastes manifests for liquid wastes transported from the Site are provided in Appendix D.

2.4 SOLID WASTES HANDLING AND DISPOSAL

Following the removal of liquids from all of the ASTs, a combination of cutting torches and hydraulic shears were used to open the tanks to allow for solidification of the remaining sludge (and solids). Solidification to the point that there were no free liquids in the wastes was required by the disposal facility, and was accomplished by adding and mixing fly ash to tank contents after liquids were removed. A total of approximately 210,000 pounds (105 tons) of fly ash was required to facilitate solidification. Once sufficiently solidified, sludge was transferred to water-tight hazardous waste containers (roll-off boxes) lined with sealable water-tight liners, using the track hoe bucket, and by hand shoveling the last of the sludge from most of the tanks. Air monitoring was conducted using an OVM during solidification and sludge removal to monitor organic vapor concentrations in order to stay within Work Plan criteria.

Wastes solids were removed from the ASTs, loaded into roll-off boxes and transported off-site for disposal during the period from December 13, 2010 through January 6, 2011. One additional roll-off box containing a small amount of sludge from the final clean out of Tank No. 6 along with contaminated debris from the demolition of Tank No. 2, was removed from the Site on

February 8, 2011. Roll-off boxes loaded with sludge were transported to the Clean Harbors facility in Deer Park, Texas where the sludge (hazardous solids) was incinerated. During the course of the Removal Action, five roll-off boxes of sludge were rejected by Clean Harbors due to the presence of free liquids, and returned to the Site for additional solidification. In each case sorbent material was added to the sludge in the roll-off box and the box was transported back to Clean Harbors. A total of approximately 812,652 pounds of hazardous solids were disposed of by incineration at the Clean Harbors facility. A summary of all solid wastes transported from the Site during the Removal Action is provided in Table 4 and copies of available wastes manifests are provided in Appendix D.

2.5 AST DECONTAMINATION, DEMOLITION AND DISPOSAL

After all sludge was removed, the tanks were cleaned by scraping, brushing, steam-cleaning, and when necessary spraying and brushing with surfactants to remove any remaining oily residue. Tanks were then cut using, a cutting torch or hydraulic shears, and crushed with the track hoe. All tanks were demolished on-site, except Tank No. 14, which was a thick walled tank (greater than 1-inch thick steel). Tank No. 14 had holes cut to render it unusable and was transported offsite in two pieces. All scrap metal from the Removal Action including tanks and tank pieces were transported to Proler Recycling in Houston, Texas and added to their steel recycling. Copies of available bills of lading and CODs for ASTs are provided in Appendix F.

2.6 CONTAINMENT AREA DECONTAMINATION

2.6.1 South Containment Area

Following the removal of all tanks from the South Containment Area, and in accordance with the Removal Action Work Plan (Appendix A), the containment area was cleaned and decontaminated on January 12 and 13, 2011. All debris was removed, sediment on the concrete floor was scraped and removed and the concrete walls and floor of the containment area were pressure washed with a steam cleaner. The removed sediment was sampled and classified as non-hazardous by EEI.

Portions of the north end of the South Containment Area floor contain small trenches (approximately eight inches deep by four to eight inches in width). It appears that the trenches may have originally been present throughout the South Containment Area, but were historically

filled with concrete over the middle and south portions of the South Containment Area. The trenches in the north end of the containment area, which were thought to have concrete floors, were filled with sediment and black mud, interpreted as being predominantly derived from the decay of algae and other organic matter. Prior to beginning the decontamination operations, it was determined that the trenches did not have concrete floors, but instead all of the trenches that had not been filled with concrete had clay bottoms.

An air-mover and vacuum box were used to "vacuum" mud and sediment from the trenches to the depths at which clay was encountered, usually around the same level or slightly below the level of the base of the adjacent concrete. The concrete walls of the trenches were then pressure washed. After decontamination of the South Containment Area was complete two verification samples were collected from the clay floor of the trenches as discussed in Section 3.2. Based on a request by EPA, the trenches were subsequently backfilled with sandy clay soil imported from an off-site quarry.

Mud, sediment and water collected in the vacuum box used during decontamination of the South Containment Area were included under the aforementioned non-hazardous characterization for sediment from the floor of the containment area. The vacuum box, including collected mud, sediment and water, was removed from the Site on January 27, 2011 and temporarily stored at an EEI subcontractor's equipment yard in Clute, Texas. It was transported to the Waste Management Coastal Plains Landfill for solidification and disposal as non-hazardous waste on February 24, 2011. Three additional roll-off boxes of non-hazardous debris and sediment scrapings from the South Containment Area, as well as other miscellaneous debris from the Site, were also transported to the Coastal Plains Landfill for disposal as non-hazardous wastes on January 27, 2011. Available manifests for non-hazardous wastes transportation and disposal are provided in Appendix D.

Pursuant to the Removal Action Work Plan provisions, the South Containment Area berm was breached to preclude future water accumulation. The berm was breached at the two lowest points of the containment area, the northwest corner and the northeast corner, on January 18, 2011 following the completion of all decontamination activities.

2.6.2 North Containment Area

During the Removal Action it was discovered that the North Containment Area did not have a concrete floor as originally thought. The floor of the North Containment Area was instead constructed of 4 to 8-inches of caliche-like base material, underlain by clay. The base material in the floor of the containment area was visibly stained with hydrocarbons beneath four of the tanks. Surficial staining was present beneath the two large ASTs (Tanks Nos. 15 and 21). More extensive staining was evident beneath Tank No. 6, which, when removed, was found to have several holes in its base. Staining was also observed below the footprint of Tank No. 2, located adjacent to Tank No. 6; however, the staining is believed to be associated with releases from Tank No. 6.

As a measure to ensure future water accumulated in the North Containment Area would not become impacted by residual contaminants on the caliche floor of the containment area, the North Containment Area floor surface was scraped using a small front-end loader on January 7 and January 14, 2011. The removed surface material scrapings were stockpiled and later loaded into two roll-off boxes, sampled and characterized for disposal (soil scrapings were loaded and sampled on January 14, 2011). Based on the characterization sample results, the North Containment Area floor scrapings were classified as hazardous. The two roll-boxes containing these hazardous soils are scheduled to be shipped to the disposal facility during the week of March 21, 2011.

Based on the visible staining observed in localized areas of the North Containment Area floor, particularly below the Tank No. 6 footprint, a plan for excavation of visibly impacted soils below the former locations of Tank Nos. 2, 6, 15, and 21 was developed. On January 7, 2011 Eric Pastor of PBW sent an email to Gary Miller of EPA, outlining the proposed approach to address these areas. The planned approach was to excavate visibly impacted soils, sample and characterize excavated soils, and collect confirmation samples from the excavated areas. The approach included a contingency, that in the event that some areas could not be practically excavated to the point that visible staining was removed, or the extent of impacted soil was anticipated to preclude effective remediation by excavation, EPA would be contacted to discuss potential in-place management options. Pending EPA's concurrence, the approach would then be to excavate as much material as appropriate, and collect verification samples to document volatile organic compound (VOC) and semi-volatile organic compound (SVOC) concentrations in the

residual (i.e., post-excavation) soil. The e-mail outlining the approach, supporting documentation, and the EPA's email approving the approach are provided in Appendix G.

Excavation of the visibly impacted soils in the North Containment Area was performed on January 11, 12, and 13, 2011. Observations made during excavation of the Tank No. 6 area on January 11 and 12, confirmed that the contingency described above would need to be implemented. Visibly impacted soil in this area extended from the surface to approximately 5.5 feet below ground surface at specific locations beneath the former location (footprint) of Tank No. 6. Near the south end of the Tank No. 6 footprint, the impacted soil extended to the west beneath the south end of the former location of Tank No. 2 (approximately south one-forth of Tank No. 2 footprint), where soil was excavated to approximately 2.5 feet bgs. Beneath the remainder of the Tank No. 2 footprint (north three-fourths of Tank No. 2 footprint) there were no visible impacts at a depth of approximately one foot bgs, and the excavation was terminated at that depth in that area.

During the excavation of the area beneath Tank Nos. 2 and 6, the subsurface material present from the ground surface to approximately 2 to 2.5 feet bgs was observed to consist of fill material (including caliche base material and clay as described above). Outside of the Tank Nos. 2 and 6 footprints, this fill material was not visibly impacted. Except for a thin (approximately 0.2 feet thick) zone of black staining along the contact between the base of the fill and original ground surface (approximately 2 feet bgs), there was no visible staining below 2.5 feet bgs south and west of Tank No. 2.

Approximately the southern two-thirds of the area beneath the Tank No. 6 footprint were excavated to a depth of approximately 5.5 to 6 feet bgs. In the south and east walls of the excavation visibly impacted soils were present from approximately 2.5 feet bgs to approximately 5.5 feet bgs. In this deepest portion of the excavation, a clay soil with no visible impacts was present from approximately 5.5 feet to 6 feet bgs. Beneath the northern end (approximately northern one-third) of the Tank No. 6 footprint, visibly impacted soil was excavated to approximately 2 feet bgs. At that depth visible impacts were limited to localized areas. The extent of the excavation below Tank Nos. 2 and 6 is shown on Figure 4. Verification sampling performed in this area is discussed in Section 3.0, below.

Very well compacted and hard caliche was encountered Beneath the Tank Nos. 15 and 21 footprints. These areas were scraped using a trackhoe to remove surficial staining.

Approximately 3 to 4-inches of caliche were scraped from the footprint of both former tanks.

Below both the Tank Nos. 15 and 21 footprints, the staining was observed to extend through the caliche base (6 to 8-inches) in localized areas, but did not appear to have visibly impacted the underlying clay. Visibly impacted caliche was removed to the extent practical. Verification sampling was performed beneath both Tanks Nos. 15 and 21 as discussed in Section 3.0.

All excavated soils from the Tank Nos. 2/6 excavation, and the scraped caliche/soil from the Tank Nos. 15 and 21 footprints were placed directly into six water-tight roll-off boxes and sampled for characterization on January 14, 2011. Based on the results of the characterization sampling, this excavated soil was classified as hazardous. Two of the roll-boxes containing excavated soil were removed from the Site for delivery to Clean Harbors for incineration on February 8, 2011. The remaining four roll-off boxes of hazardous soils, along with the two roll-offs containing the surface scrapings from the North Containment Area described above, are scheduled to be shipped to the disposal facility during the week of March 21, 2011. A summary of hazardous soil from the North Containment Area transported from the Site during the Removal Action is provided in Table 5, and copies of available wastes manifests for this material are provided in Appendix D.

After verification samples were collected from the excavated area, the excavation was backfilled with sandy clay soil imported from an off-site quarry and the entire North Containment Area was graded so that accumulated water would drain to the low side (east side of containment area).

Pursuant to the Removal Action Work Plan provisions, and following receipt and evaluation of analytical results from the accumulated water sample collected after completion of the Removal Action and Site restoration in the North Containment Area (sample collected on January 18, 2011), the North Containment Area berm was breached. The berm was breached at the lowest point of the containment area along the east side on January 27, 2011.

3.0 SAMPLING AND ANALYSIS

The following sections describe sampling and analysis performed during the Removal Action.

3.1 ACCUMULATED WATER IN CONTAINMENT AREAS

As summarized in Section 2.1 samples of accumulated water were collected from the North and South Containment Areas during the Removal Action on December 30, 2011, and from the North Containment Area only, on January 18, 2011. These water samples were all analyzed for selected VOCs and the results compared to discharge criteria as identified in the TCEQ Surface Discharge Letter (Appendix C) and listed in Table 2. Field pH measurements collected at the time of sample collection are also included in Table 2.

All accumulated water samples were collected and handled in accordance with the procedures described in the Remedial Investigation/Feasibility Study (RI/FS) Field Sampling Plan (FSP) (PBW, 2006). The samples obtained on December 30, 2010, were collected from the North and South Containment Areas in locations where accumulated water was most likely to be impacted by Site activities performed prior to that date. The South Containment Area water sample was collected near the northwest corner of the containment area where pumps had been staged and pumping activities performed. The North Containment Area was sampled in two locations. Sample "N. Containment (NW)" was collected from water that had accumulated in the footprint of Tank No. 6, and sample "N. Containment (NE)" was collected from water that had accumulated in the footprint of Tank No. 21, both areas where the floor of the containment was observed to be visibly impacted when the tanks were moved. As discussed in Section 2.1 and shown on Table 2, the accumulated water in the South Containment Area met discharge criteria and was discharged to the Intracoastal Waterway. Neither of the two water samples collected from the North Containment Area met discharge criteria. Accumulated water from the North Containment Area was pumped into tanker trailers and transported to the Clean Harbors facility for disposal.

As mentioned above and discussed in Section 2.1, a subsequent accumulated water sample was collected from the North Containment Area on January 18, 2011. This sample was collected following a rainfall event that occurred after the excavated areas in the North Containment Area had been backfilled, and the entire containment area had been scraped and graded. The sample

was collected from water accumulated near the center of the North Containment Area. As previously stated in Section 2.1 analytical results for this sample met discharge criteria, and the accumulated water was released when the containment berm was breached on January 27, 2011.

Table 2 presents a comparison of accumulated water analytical results for both sampling events to discharge criteria. Field pH measurements collected at the time of sample collection or prior to surface water discharge are also provided on Table 2. Laboratory analytical reports and sample validation reports are included in Appendix H.

3.2 SOIL VERIFICATION SAMPLES

In order to document soil conditions at the North Containment Area following completion of excavation activities, eight verification soil samples were collected from this area. These samples were collected after it was determined that impacted soil encountered at depths ranging from approximately 2.5 feet bgs to approximately 5.5 feet bgs could not be practically excavated such that visible staining was removed. The verification samples were intended to characterize VOC and SVOC concentrations in the residual (i.e., post-excavation) soil.

After excavation was terminated in the area beneath Tank Nos. 2 and 6 and the containment area base material floor had been scraped in the Tank Nos. 15 and 21 areas, soil samples were collected from these areas. These samples, which were collected and handled in accordance with FSP procedures, were collected on January 13, 2011. Sample locations, as shown on Figure 4, included:

- one sample from below the Tank No. 15 footprint at a depth of 0.8 feet bgs (T-15-F);
- one sample from below the Tank No. 21 footprint at a depth of 0.5 feet bgs (T-21-F);
- one sample of surface soil near the center of the North Containment Area at a depth of 0 to 0.3 feet bgs (NC-0-0.3);
- one sample from the west wall of the excavation beneath Tank Nos. 2 and 6, west of the former location of Tank No. 2 and near the southwest corner of the overall excavation at a depth of 2.5 feet bgs (T-2-West);

- one sample from the floor of the excavation beneath the footprint of Tank No. 6 approximately 10 feet north of the south end of the former tank location at a depth of 5.8 feet bgs (T-6-Floor);
- one sample from the east wall of the Tank No. 6 excavation approximately 11 feet north of the south end of excavation this sample was collected in visibly impacted soil at a depth of 4 feet bgs, which is approximately 1.5 feet below the upper limit of visibly impacted soil (T-6-East);
- one sample from the south end of the Tank No. 6 excavation beneath the south end of the former Tank No. 6 footprint this sample was collected in visibly impacted soil at a depth of 4.5 feet bgs, which is approximately 2 feet below the upper limit of visibly impacted soil (T-6-South); and
- one sample from the north wall of the Tank No. 6 excavation beneath the north end of the former Tank No. 6 footprint at a depth of approximately 2 feet bgs no visible impacts were observed at this sample location (T-6-North).

Analytical results for the Site's chemicals of interest from the verification samples were evaluated relative to comparison values, which were established by using the lower of the EPA Region 6 Soil Screening Criteria value and the TCEQ Tot Soil Comb value for an industrial/commercial exposure scenario. The analytical results from the soil verification samples relative to comparison values are summarized in Table 6. Laboratory analytical reports and data validation reports are provided in Appendix H.

Analytical results for SVOCs did not exceed comparison criteria for any chemicals of interest, at any of the verification sample locations. However, VOC comparison criteria were exceeded at verification sample locations T-15-F (benzene, chloroform and trichloroethene (TCE)); T-21-F (tetrachloroethene (PCE) and TCE); NC-0-0.3 (TCE); T-6-East (benzene, ethylbenzene and isopropylbenzene); T-6-South (benzene, chloroform, and ethylbenzene); and T-6-North (benzene and TCE).

Verification samples were also collected from the clay floor of the trenches in the South Containment Area at two locations. The verification sample locations are show on Figure 4 and described below:

- one sample of the clay from the floor of the trench near the northwest corner of the containment area collected approximately 15 feet south of the north berm and 15 feet east of the west berm (SC-W); and
- one sample of the clay from the floor of the trench near the northeast corner of the containment area collected approximately 15 feet south of the north berm and 19 feet west of the east berm (SC-E).

Analytical results from samples collected in the South Containment trenches (summarized in Table 6) did not exceed comparison criteria for VOCs or SVOCs for any chemicals of interest.

Several exceedences of the comparison criteria listed in Table 6 were noted on an individual sample basis for some of the North Containment Area soil samples. These concentrations resulted in predicted risks that were within EPA's acceptable or target risk range for carcinogens (10⁻⁴ to 10⁻⁶ risk) and below a target hazard quotient of one for non-carcinogens based on an industrial/commercial exposure scenario.

4.0 CONCLUSIONS

The purpose of the Removal Action at the Gulfco AST Tank farm was to remove and properly dispose of contents of the ASTs; remove, demolish and dispose of the tanks in the AST Tank Farm; and decontaminate the AST Tank Farm containment areas. The overarching Removal Action objectives as set forth in Paragraph 31.f of the Settlement Agreement are to protect the public health, welfare, or the environment. These objectives have been met through performance of the Removal Action activities documented in this report.

5.0 REFERENCES

Pastor, Behling & Wheeler, LLC (PBW), 2006. Sampling and Analysis Plan – Volume I, Field Sampling Plan, Gulfco Marine Maintenance Site, Freeport, Texas. May 16.

Pastor, Behling & Wheeler, LLC (PBW), 2010. Final Baseline Human Health Risk Assessment, Gulfco Marine Maintenance Site, Freeport, Texas. March 31.

United States Environment Protection Agency (EPA), Region 6, 2010. Administrative Settlement Agreement and Order on Consent for Removal Action (Settlement Agreement). October.

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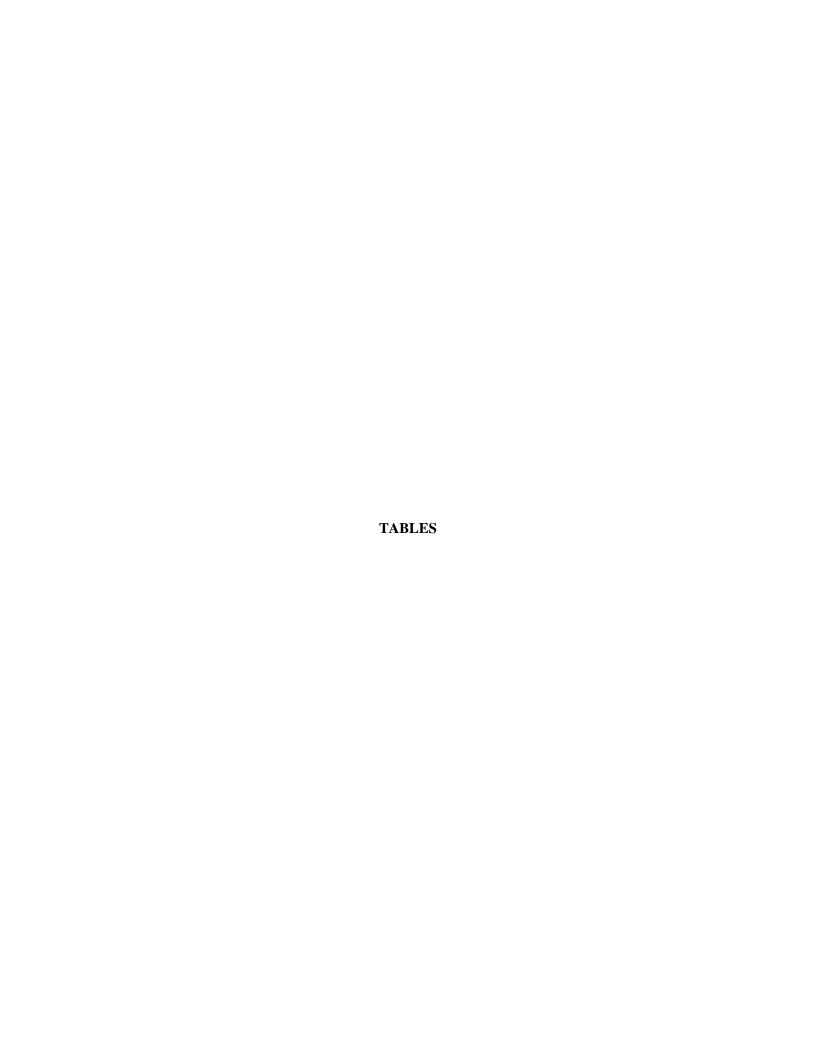


TABLE 1 - TANK CONTENT SUMMARY

Tank No.	Content Description
Tank No. 2	Organic/Aqueous Mixture Solids - sand, debris
Tank No. 4	Oily Water
Tank No. 6	Rust Solids and Organic Liquds
Tank No. 10	Empty
Tank No. 13	Oily Sludge
Tank No. 14	Small Amount of Oil Solids
Tank No. 15	Oily Sludge and Water
Tank No. 16	Oily Sludge
Tank No. 17	Empty
Tank No. 18	Light Organic Phase
Tank No. 19	Oily Sludge
Tank No. 21	Oily Water and Oily Sludge
Tank No. 22	Oily sludge
Tank No. 23	Weathered Diesel

TABLE 2 - CONTAINMENT AREA ACCUMULATED WATER ANALYTICAL DATA RELATIVE TO DISCHARGE CRITERIA

<u>Parameter</u>	December 30, 2010 Accumulated Water Sample			January 18, 2011 Accumulated Water Sample	Water-Quality Limitations ¹		Technology-Based Effluent Limitations ²		
	North North South Containment Containment (NE) (NW)		Daily Average	Daily Maximum	Daily Average	Daily Maximum			
Benzene	0.137J mg/L	2.0 mg/L	0.00566 mg/L	<0.000054 mg/L	2.4 mg/L	5.1 mg/L	0.057 mg/L	0.134 mg/L	
Chloroform	8.66 mg/L	5.29 mg/L	0.005J mg/L	<0.000057 mg/L	29.4 mg/L	62.2 mg/L	0.111 mg/L	0.325 mg/L	
1,2-dichloroethane	0.580 mg/L	7.29 mg/L	<0.000086 mg/L	<0.000086 mg/L	1.6 mg/L	3.5 mg/L	0.18 mg/L	0.574 mg/L	
Trichloroethylene	<0.00618 mg/L	1.93 mg/L	0.0111 mg/L	<0.000062 mg/L	13.9 mg/L	29.5 mg/L	0.026 mg/L	0.069 mg/L	
Tetrachloroethylene	0.225J mg/L	0.252 mg/L	0.0107 mg/L	<0.000121 mg/L	7.3 mg/L	15.5 mg/L	0.052 mg/L	0.164 mg/L	
Vinyl Chloride	<0.0093 mg/L	<0.00465 mg/L	<0.000093 mg/L	<0.000093 mg/L	9.5 mg/L	20.0 mg/L	0.097 mg/L	0.172 mg/L	
pH (Standard Units)	6.28	6.13	6.2	6.44	(Minimum 6.0)	(Maximum 9.0)	(Minimum 6.0)	(Maximum 9.0)	

Notes:

¹From Attachment 1 of June 22, 2010 TCEQ Memorandum. ²From Attachment 2 of June 22, 2010 TCEQ Memorandum. ³ Data Qualifier: J = Estimated concentration.

TABLE 3 - LIQUID WASTES DISPOSAL SUMMARY

Shipment Waste				Estimated		
Date	Description	Tanker No.	Manifest No.	Gallons	Weight (lbs)	Waste Disposition ⁽¹⁾
	zardous Liquids					
11/17/10	Aqueous-Haz	T-346	000115092	4,800	40,260	Clean Harbors
11/18/10	Aqueous-Haz	T-332 T-514	_000115093	4,800	41,600	Clean Harbors
11/18/10			000115094	5,000	43,440	Clean Harbors
11/19/10	Aqueous-Haz	T-351	000115095	5,000	39,860	Clean Harbors
11/19/10	Aqueous-Haz	T-332	000115097	5,000	41,800	Clean Harbors
11/22/10	Aqueous-Haz	T-346	000115098	5,000	44,940	Clean Harbors
11/23/10	Aqueous-Haz	T-321	000115100	5,000	42,880	Clean Harbors
11/23/10	Aqueous-Haz	T-687	000115099	5,000	43,440	Clean Harbors
11/30/10	Load Rejected	T-687	rejected ⁽²⁾			Clean Harbors
12/1/10	Aqueous-Haz	T-321	000115079	5,000	44,460	Clean Harbors
12/1/10	Aqueous-Haz	T-351	000115101	5,000	42,360	Clean Harbors
12/2/10	Aqueous-Haz	T-332	000115103	5,000	41,660	Clean Harbors
12/2/10	Load Rejected	T-514	rejected			Clean Harbors
12/3/10	Load Rejected	T-687	rejected			Clean Harbors
12/7/10	Aqueous-Haz	T-514	000115084	5,000	43,800	Clean Harbors
12/15/10	Aqueous-Haz	T-687	000115087	4,500	39,400	Clean Harbors
1/6/11	Aqueous-Haz	T-687	000107697	5,000	32,286	Clean Harbors
1/27/11	Aqueous-Haz ⁽³⁾	T-687	001370022	5,000	29,846	Clean Harbors
Subtotal Aqu	eous-Haz			74,100	612,032	
A 37	YY Y 7. 1.					
	-Hazardous Liquid		ND 0722174	2.200	01.760	XX7 / 3 / 4
11/17/10	Aqueous Non-Haz	T-514	WMI733174	2,300	21,760	Waste Management
Subtotal Aqu	eous-Non-Haz			2,300	21,760	
Organics for	Fuel Blending					
11/29/10	Fuel Blending	T-332	000115083	4,000	31,160	Clean Harbors
11/29/10	Fuel Blending	T-514	000115076	5,000	44,280	Clean Harbors
11/30/10	Fuel Blending	T-346	000115077	5,000	42,380	Clean Harbors
Subtotal Non-	-Aqueous (Fuel Ble	nding)		14,000	117,820	
			-			
Total Liquids				90,400	751,612	

Notes:

- (1) Clean Harbors Deer Park, Texas for Incineration; Waste Management Coastal Plain Landfill Alvin, Texas
- (2) rejected Load was rejected by Clean Harbors due to viscosity and returned to the Site for liquid/solids separation.
- (3) Tanker T-687 load shipped on 1/27/11 contained accumulated water from North Containment Area

TABLE 4 - SOLID WASTES DISPOSAL SUMMARY

Shipment Date	Waste Description	Tanker/Box No.	Manifest No.	Weight (lbs)	Waste Disposition ⁽¹⁾
12/14/2010	Haz-Solids	2237	000115120	39,296	Clean Harbors
12/14/2010	Haz-Solids	N23486	000115119	30,836	Clean Harbors
12/15/2010	Haz-Solids	RBR250515	000115066	24,896	Clean Harbors
12/15/2010	Haz-Solids	RBR250445	000115067	23,976	Clean Harbors
12/16/2010	Haz-Solids	RB26606	000115068	33,176	Clean Harbors
12/16/2010	Haz-Solids	N16822	000115069	20,316	Clean Harbors
12/17/2010	Haz-Solids	N26538	000115070	32,056	Clean Harbors
12/17/2010	Haz-Solids	N48861	000115071	29,756	Clean Harbors
12/17/2010	Haz-Solids	N41024	000115075	31,116	Clean Harbors
12/17/2010	Haz-Solids	2536RB	000115085	23,176	Clean Harbors
12/20/2010	Haz-Solids	RB26712	000107504	27,496	Clean Harbors
12/20/2010	Haz-Solids	RB2609	000107505	21,576	Clean Harbors
12/21/2010	Haz-Solids	N35202	000107506	26,876	Clean Harbors
12/21/2010	Haz-Solids	N48754	000107512	19,216	Clean Harbors
12/22/2010	Haz-Solids	N12736	rejected ⁽²⁾		Clean Harbors
12/22/2010	Haz-Solids	N44607	000107507	32,496	Clean Harbors
12/27/2010	Haz-Solids	RBR250185	000107508	19,476	Clean Harbors
12/27/2010	Haz-Solids	N23486	000107509	30,116	Clean Harbors
12/28/2010	Haz-Solids	RB26833	rejected		Clean Harbors
12/28/2010	Haz-Solids	N16822	rejected		Clean Harbors
12/29/2010	Haz-Solids	N12736	rejected		Clean Harbors
12/29/2010	Haz-Solids	48861	000107564	32,006	Clean Harbors
12/29/2010	Haz-Solids	RB2609	rejected		Clean Harbors
12/30/2010	Haz-Solids	N48754	000107569	33,606	Clean Harbors
12/30/2010	Haz-Solids	2237	000107566	31,326	Clean Harbors
1/3/2011	Haz-Solids	RBR250445	000107568	33,866	Clean Harbors
1/4/2011	Haz-Solids	N16822	000107567	29,546	Clean Harbors
1/4/2011	Haz-Solids	RB26833	000107652	28,766	Clean Harbors
1/5/2011	Haz-Solids	RB2609	000107653	34,426	Clean Harbors
1/5/2011	Haz-Solids	N12736	000107656	38,526	Clean Harbors
1/6/2011	Haz-Solids	RB26606	000107654	41,486	Clean Harbors
2/8/2011	Haz-Solids	N35202	000107657	43,246	Clean Harbors
Haz-Solids Subt	otal			812,652	
			_		
1/27/2011	Non-Haz-Solids	40001	001370018	24,906	Waste Management
1/27/2011	Non-Haz-Solids	B20-571	001370021	6,026	Waste Management
1/27/2011	Non-Haz-Solids	2536RB	001370019	17,686	Waste Management
2/23/2011	Non-Haz-Solids	Vac Box	001370171	15,666	Waste Management
Non-Haz-Solids	Subtotal			64,284	
T . 10 ""				086.006	
Total Solids				876,936	

Notes

⁽¹⁾ Clean Harbors - Deer Park, Texas for Incineration; Waste Management - Coastal Plains Landfill - Alvin, Texas

⁽²⁾ rejected - Load was rejected by Clean Harbors due to free liquids and returned to the Site for additional solidification and reshipment.

TABLE 5 - NORTH CONTAINMENT AREA SOILS DISPOSAL SUMMARY

Shipment Date	Waste Description	Box No.	Manifest No.	Weight (lbs)	Waste Disposition ⁽¹⁾
2/9/2011	Haz-Soils	RB26712	000107661	40,266	Clean Harbors
2/9/2011	Haz-Soils	RBR250185	000107658	39,286	Clean Harbors
3/14/2011	Haz-Soils	N26603	001445391	33,066	Clean Harbors
3/14/2011	Haz-Soils	2535RB	001445390	31,466	Clean Harbors
3/22/2011	Haz-Soils	2592	001445395	35,666	Clean Harbors
3/22/2011	Haz-Soils	N26538	001445394	37,146	Clean Harbors
3/25/2011	Haz-Soils	RB250070	001445393	29,546	Clean Harbors
3/25/2011	Haz-Soils	2498RB	001445392	25,766	Clean Harbors
Total Haz-Soils				272,208	

Notes:

(1) Clean Harbors - Deer Park, Texas for Incineration

TABLE 6 - SOIL ANALYTICAL DATA RELATIVE TO COMPARISON CRITERIA⁽¹⁾

Chemicals of Interest			SAMPLE DESIGNATION ⁽³⁾									
Color										Т-6-		
1.1.2 Tenschwenchance	Chemicals of Interest	Comparison Criteria ⁽²⁾	T-15-F	T-21-F	NC-0-0.3		-	_	_	-	SC-W	SC-E
1.4.1 Trickhroentame	VOCs	1										
1.1.2.1 Frienksbrenhame	1,1,1,2-Tetrachloroethane	7.60	< 0.00507	< 0.00542	< 0.00672	< 0.026	< 0.015	<1.39	<1.36	< 0.00577	< 0.00586	< 0.00722
1.3. Trickhorentame	1,1,1-Trichloroethane	1400.00	< 0.011	< 0.012	0.213J	< 0.058	< 0.033	<3.06	<2.99	0.087J	< 0.013	< 0.016
	1,1,2,2-Tetrachloroethane	0.97	< 0.013	< 0.014	< 0.018	< 0.069	< 0.039	<3.66	<3.57	< 0.015	< 0.015	< 0.019
J. Deckinomenhene	1,1,2-Trichloroethane	2.10	< 0.011	< 0.012	< 0.015	< 0.059	< 0.033	<3.12	<3.04	< 0.013	< 0.013	< 0.016
J.Dichloropropene	1,1-Dichloroethane	2300.00	< 0.016	< 0.017	< 0.021	< 0.084	< 0.047	<4.40	<4.30	< 0.018	< 0.019	< 0.023
2.3-Trinkelnopropame	1,1-Dichloroethene											
2.4. Trintehyberzene 26000 -0.015 -0.016 -0.020 -0.077 -0.043 -0.044 -0.395 -0.017 -0.017 -0.021 -0.022 -0.022 -0.039 -0.039 -0.022 -0.039 -0.039 -0.022 -0.039	• •		_									
2.24 Direntesylbenzees	* *											
2.20bicomon-3-chitoropropane 2.20	, ,											
2.Dirhibrorochame	*											
2.Dichlorochemene												
2.Dichloropropune	,		_									
2.20ichtorpropage 9.85 -0.00522 -0.00588 -0.00691 -0.0102 -0.0112 -0.0114 -0.148 -1.49 -0.00593 -0.00073 -0.00	1,2-Dichloroethane		_									< 0.00901
3.Dichloropopane	1,2-Dichloropropane	0.85	< 0.00522	< 0.00558	< 0.00691		< 0.015				< 0.00603	< 0.00743
3.70 A.70	1,3,5-Trimethylbenzene	78.00	< 0.012		0.110J	< 0.061				0.094J	0.057J	< 0.017
A.Dichlorobrograme	,											
12-Dichloropropame			_									
Edutatione 34000,00 50.029 50.031 50.039 50.152 50.055 7.99 7.780 50.033 50.034 50.015	,											
Chlorotolune	, i											
Effection 79.20			_									
Celiprophiotene	2-Chlorotoluene	510.00	< 0.013	< 0.014	< 0.017	< 0.066	< 0.037	<3.50	<3.42	< 0.015	< 0.015	< 0.018
Formation 4713.42	2-Hexanone											
Methyl-2-pentanone			_									
Nectone S114.02 C.0.051 C.0.055 C.0.068 C.0.267 C.0.150 C.4.1 C.1.37 C.0.058 C.0.059 C.0.075 C.0.068 C.0.267 C.0.150 C.4.1 C.1.37 C.0.058 C.0.059 C.0.060	,		_									
Acylonitrile	Acetone											
Serizene 1.60	Acrolein	0.38	< 0.097	< 0.103	< 0.128	< 0.504	< 0.283	<26.5	<25.9	< 0.110	< 0.112	< 0.138
Second Control 120.00 0.015 0.016 0.019 0.076 0.043 0.399 0.390 0.017 0.017 0.0021 Commodichoromethane 2.60 0.000772 0.00075 0.00080 0.038 0.021 0.199 0.194 0.000824 0.00838 0.0101 Commodichoromethane 15.00 0.0071 0.0075 0.00980 0.038 0.023 0.06 0.299 0.013 0.013 0.016 Commoditane 15.00 0.0071 0.0075 0.0093 0.038 0.020 0.194 0.189 0.0080 0.0082 0.0103 Commoditane 15.00 0.0071 0.0075 0.0093 0.0368 0.207 0.194 0.189 0.0080 0.0082 0.0103 Commoditatified 720.00 0.022 0.024 0.0030 0.117 0.066 0.17 0.666 0.17 0.662 0.026 0.026 0.026 0.026 Carbon disulfide 720.00 0.022 0.024 0.0030 0.117 0.066 0.17 0.662 0.026 0.026 0.026 0.026 0.026 Carbon disulfide 0.58 0.011 0.012 0.015 0.059 0.033 0.313 0.05 0.013 0.016 0.016 Chlorobenzene 600.00 0.00998 0.00971 0.012 0.047 0.027 0.249 0.243 0.010 0.010 0.013 Chlorobethane 7.20 0.032 0.034 0.042 0.0166 0.003 0.854 0.036 0.037 0.035 Chlorobethane 3.00 0.037 0.039 0.048 0.191 0.107 0.10 0.980 0.0942 0.042 0.052 Cisis-1,2-Dichloroethene 160.00 0.1981 0.050 0.0074 0.0092 0.037 0.021 0.02 0.28 0.00945 0.00960 0.012 Cisis-1,3-Dichloropropene 42.94 0.00700 0.00749 0.00928 0.037 0.021 0.192 1.192 1.88 0.00996 0.0052 0.0052 0.0052 0.0052 0.0052 0.0052 0.0052 0.0052 0.0052 0.0052 0.0052 0.0053 0.0052 0.0059 0.0052 0.0059 0.0053 0	Acrylonitrile	0.55	< 0.052	< 0.055	< 0.069	< 0.269	< 0.152	<14.2	<13.8	< 0.059	< 0.060	< 0.074
Stromodichloromethane 2.60	Benzene	1.60	< 0.00662	< 0.00707	0.217J	< 0.034	1.33	18.2J	13.8J	2.94	0.102J	< 0.00942
Stromoform 240.00 <0.011 <0.012 <0.015 <0.058 <0.033 <3.06 <2.99 <0.013 <0.013 <0.016 <0.016 <0.0071 <0.0075 <0.093 <0.368 <0.207 <1.94 <1.89 <0.080 <0.082 <0.082 <0.010 <0.015 <0.0083 <0.016 <0.0081 <0.0081 <0.0082 <0.010 <0.0082 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083 <0.0083	Bromobenzene		_									
Stromomethane	Bromodichloromethane											
Sutanol 3075.73 <0.884 <0.945 <1.17 <4.61 <2.59 <243 <237 <1.01 <1.02 <1.26			_									
Carbon disulfide 720.00	Butanol		_									
Chlorobenzene 600.00	Carbon disulfide											
Chloroethane 7.20	Carbon tetrachloride	0.58	< 0.011	< 0.012	< 0.015	< 0.059	< 0.033	<3.13	< 3.05	< 0.013	< 0.013	< 0.016
Chloroform	Chlorobenzene	600.00	< 0.00908	< 0.00971	< 0.012	< 0.047	< 0.027	< 2.49	<2.43	< 0.010	< 0.010	< 0.013
Chloromethane 3.00	Chloroethane											
160.00	Chloroform											
Sistral Sist												
Cyclohexane G800.00 C0.00850 C1.08J C1.08J C0.044 C0.025 C2.33 C2.28 C0.063J C2.08J C1.06J C1.												
194.29 0.015 0.016 0.020 0.079 0.044 0.416 0.017 0.018 0.022 0.024 0.025 0.025 0.00573 0.00711 0.028 0.016 0.1.47 0.1.44 0.00610 0.00620 0.0076 0.0076 0.00620 0.0076 0.0076 0.0072 0.0078 0.00	Cyclohexane											
Sichlorodifluoromethane 340.00 <0.00536 <0.00573 <0.00711 <0.028 <0.016 <1.47 <1.44 <0.00610 <0.00620 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.00766 <0.007	Dibromochloromethane											< 0.00963
Sthylbenzene 230.00 <0.00995 <0.011 0.818 <0.052 9.44 272 321 1.83 0.144J 0.195J	Dibromomethane											
Acceptable Company C												
Sopropylbenzene (Cumene) S80.00 <0.00942 0.236J 0.942J 32.6J 12.6J 1660J 543J 0.221J 0.328J 0.427J Methyl acetate 6589.22 <0.017 <0.018 1.03 <0.086 <0.048 <4.53 <4.43 <0.019 <0.019 <0.024 <0.024 <0.024 <0.0086 <0.048 <4.53 <0.086 <0.048 <4.53 <0.019 <0.019 <0.024 <0.024 <0.0086 <0.048 <0.030 <0.186 <0.044 <0.009 <0.0072 <0.0072 <0.0073 <0.090 <0.0090 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091 <0.0091	-		_									
Methyl acetate 6589.22 <0.017 <0.018 1.03 <0.086 <0.048 <4.53 <4.43 <0.019 <0.019 <0.024 Methyl iodide 121.39 <0.063	Isopropylbenzene (Cumene)											
Methylcyclohexane 140.00 <0.00792 <0.00847 <0.010 <0.041 <0.023 <2.17 <2.12 <0.0901 <0.00916 <0.011 Methylene chloride 22.00 <0.017	Methyl acetate											
Methylene chloride 22.00 <0.017 <0.018 0.062J <0.088 <0.049 <4.61 <4.50 <0.019 <0.019 <0.024 Naphthalene 189.76 <0.040	Methyl iodide											< 0.090
Naphthalene 189.76 <0.040 0.101J 0.49 <0.208 <0.117 <10.9 16.4J 0.427 0.118J 0.164J n-Butylbenzene 240.00 <0.017	Methylcyclohexane											
1-Butylbenzene 240.00												
1-Propylbenzene 240.00 <0.013 <0.014 <0.017 <0.068 <0.038 <3.59 <3.51 0.155J <0.015 <0.019 <0.025 <0.019 <0.025 <0.019 <0.025 <0.019 <0.025 <0.019 <0.025 <0.019 <0.025 <0.019 <0.025 <0.019 <0.025 <0.019 <0.025 <0.019 <0.025 <0.019 <0.025 <0.019 <0.025 <0.019 <0.025 <0.019 <0.025 <0.019 <0.025 <0.019 <0.025 <0.019 <0.025 <0.019 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0	<u> </u>											
0-Xylene 280.00 <0.00913 <0.00976 0.176J <0.048 1.95 167 68.6 0.357 0.109J 0.087J ee-Butylbenzene 220.00 <0.012 <0.013 <0.016 <0.063 <0.036 <3.33 <3.25 <0.014 <0.014 <0.017			_									< 0.024
ec-Butylbenzene 220.00 <0.012 <0.013 <0.016 <0.063 <0.036 <3.33 <3.25 <0.014 <0.014 <0.017	o-Xylene											
	sec-Butylbenzene		_									< 0.017
,	Styrene	1700.00	< 0.013	< 0.014	< 0.017	< 0.066	< 0.037	21.8J	15.2J	< 0.015	< 0.015	< 0.018

TABLE 6 - SOIL ANALYTICAL DATA RELATIVE TO COMPARISON CRITERIA⁽¹⁾

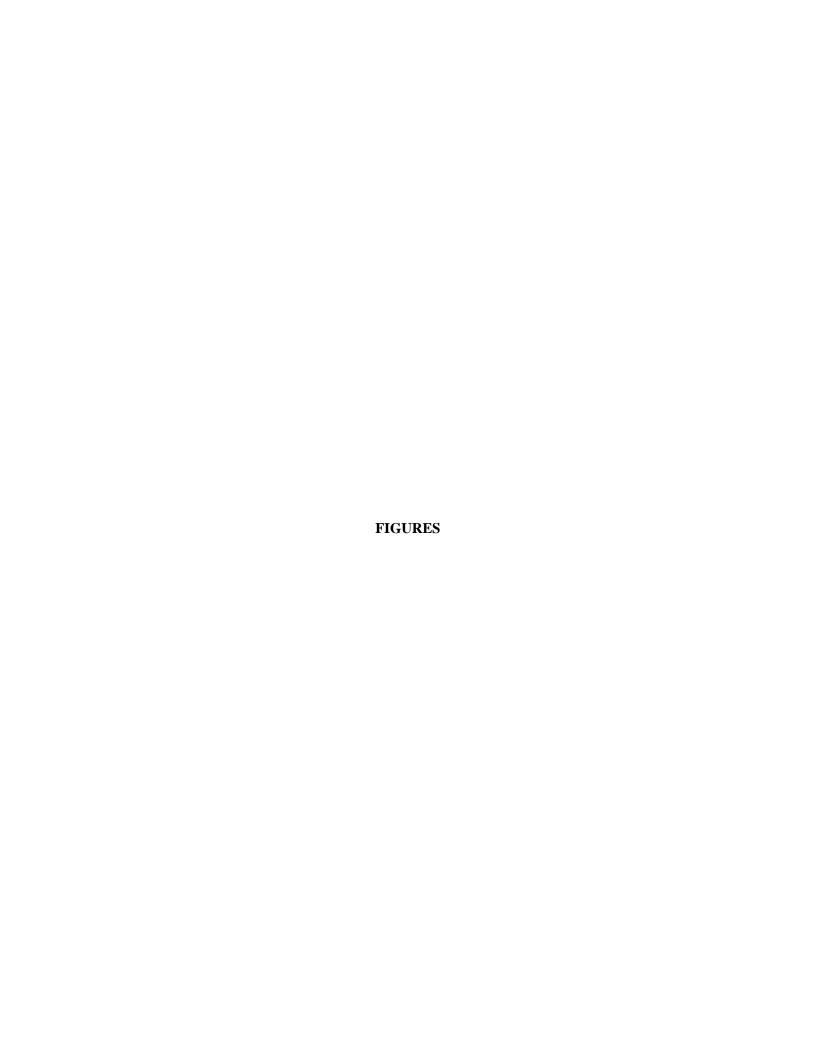
	<u> </u>	SAMPLE DESIGNATION ⁽³⁾									
					SA.	WIT LE DE	SIGNATI	ON			
Chemicals of Interest	Comparison Criteria ⁽²⁾	T-15-F	T-21-F	NC-0-0.3	T-2- WEST	T-6- FLOOR	T-6- EAST	T-6- SOUTH	T-6- NORTH	SC-W	SC-E
tert-Butyl methyl ether (MTBE)	41.00	< 0.00807	< 0.00862	< 0.011	< 0.042	0.234J	<2.21	<2.16	0.479	< 0.00932	
tert-Butylbenzene	390.00	< 0.011	< 0.012	< 0.015	< 0.060	< 0.034	<3.14	<3.07	< 0.013	< 0.013	< 0.016
Tetrachloroethene	1.70	< 0.0100	2.5	0.835	< 0.052	< 0.029	<2.74	<2.68	< 0.011	< 0.012	< 0.014
Toluene	520.00	< 0.00966	< 0.010	0.227J	< 0.050	1	37.0J	23.8J	0.271J	< 0.011	< 0.014
trans-1,2-Dichloroethene	240.00	< 0.00976		< 0.013	< 0.051	< 0.029	<2.68	<2.61	< 0.011	< 0.011	< 0.014
trans-1,3-Dichloropropene trans-1,4-Dichloro-2-butene	60.91 0.29	<0.011	<0.011	<0.014	<0.055 <0.143	<0.031	<2.92 <7.53	<2.85 <7.35	<0.012 <0.031	<0.012	<0.015
Trichloroethene	0.10	0.112J	0.118J	1.02	<0.143	<0.080	<3.10	<3.03	0.031 0.174J	<0.032	<0.039
Trichlorofluoromethane	1400.00	< 0.00647	< 0.00692	< 0.00858	< 0.039	< 0.033	<1.78	<1.73	<0.00736	< 0.013	
Trichlorotrifluoroethane	5600.00	< 0.056	< 0.059	< 0.074	< 0.290	<0.163	<15.2	<14.9	< 0.063	< 0.064	< 0.079
Vinyl acetate	1600.00	< 0.011	< 0.011	< 0.014	< 0.056	< 0.031	<2.94	< 2.87	< 0.012	< 0.012	< 0.015
Vinyl chloride	0.43	< 0.00652	< 0.00697	< 0.00864	< 0.034	< 0.019	<1.79	<1.75	< 0.00742	< 0.00754	< 0.00928
Xylene (total)	210.00	< 0.033	< 0.035	0.298J	< 0.173	1.95	167	68.6J	1.02	0.226J	0.187J
SVOCs											
1,2Diphenylhydrazine/Azobenzen	2.40	< 0.00894	< 0.00901	< 0.00900	< 0.00939	< 0.010	< 0.010	< 0.010	< 0.00962	< 0.00981	< 0.010
2,4,5-Trichlorophenol	12499.12	< 0.047	< 0.047	< 0.047	< 0.049	< 0.053	< 0.054	< 0.053	< 0.050	< 0.051	< 0.053
2,4,6-Trichlorophenol	170.00	< 0.062	< 0.062	< 0.062	< 0.065	< 0.070	< 0.070	< 0.069	< 0.066	< 0.068	< 0.070
2,4-Dichlorophenol	1683.88	< 0.063	<0.064	<0.064	<0.066	< 0.072	<0.072	<0.071	<0.068	<0.069	<0.072
2,4-Dimethylphenol 2,4-Dinitrophenol	2867.85 1362.67	<0.050	<0.050	<0.050 <0.212	<0.053	<0.057 <0.238	<0.057	<0.056	<0.054 <0.227	<0.055	<0.057 <0.238
2,4-Dinitrophenol	20.62	<0.211	<0.212	<0.212	<0.221	<0.238	<0.241	<0.230	<0.227	<0.231	<0.238
2,6-Dinitrotoluene	28.05	< 0.023	< 0.023	< 0.023	< 0.024	< 0.026	< 0.027	< 0.026	< 0.025	< 0.025	< 0.026
2-Chloronaphthalene	26000.00	< 0.021	< 0.021	< 0.021	< 0.022	< 0.024	< 0.024	< 0.024	< 0.023	< 0.023	< 0.024
2-Chlorophenol	260.00	< 0.030	< 0.030	< 0.030	< 0.032	< 0.034	< 0.035	< 0.034	< 0.033	< 0.033	< 0.034
2-Methylnaphthalene	2477.58	< 0.021	0.128J	0.145J	< 0.022	< 0.024	1.29J	0.55J	< 0.023	< 0.023	0.073J
2-Nitroaniline	2000.00	< 0.044	< 0.045	< 0.044	< 0.046	< 0.050	< 0.050	< 0.050	< 0.048	< 0.048	< 0.050
2-Nitrophenol	405.55	< 0.018	< 0.018	<0.018	<0.019	<0.020	<0.021	<0.020	< 0.019	<0.020	< 0.020
3,3'-Dichlorobenzidine 3-Nitroaniline	4.30 155.19	<0.251	<0.253	<0.253 <0.048	<0.264	<0.284	<0.287	<0.282	<0.270 <0.052	<0.276	<0.284 <0.054
4,6-Dinitro-2-methylphenol	0.00	<0.048	<0.039	<0.048	< 0.030	< 0.034	<0.033	< 0.034	<0.032	<0.033	<0.034
4-Bromophenyl phenyl ether	1.10	<0.039	< 0.039	< 0.039	<0.041	<0.044	<0.044	<0.043	<0.042	<0.042	<0.039
4-Chloro-3-methylphenol	2992.21	< 0.033	< 0.033	< 0.033	< 0.033	< 0.035	< 0.035	< 0.035	< 0.033	< 0.034	< 0.035
4-Chloroaniline	2700.00	< 0.039	< 0.039	< 0.039	< 0.041	< 0.044	< 0.045	< 0.044	< 0.042	< 0.043	< 0.044
4-Chlorophenyl phenyl ether	0.80	< 0.044	< 0.044	< 0.044	< 0.046	< 0.049	< 0.050	< 0.049	< 0.047	< 0.048	< 0.049
4-Nitroaniline	0.00	< 0.073	< 0.074	< 0.074	< 0.077	< 0.083	< 0.084	< 0.082	< 0.079	< 0.080	< 0.083
4-Nitrophenol	107.23	< 0.136	< 0.137	< 0.137	< 0.143	< 0.154	< 0.155	< 0.152	< 0.146	< 0.149	< 0.154
Acenaphthene	33000.00	< 0.022	0.142	0.069J	< 0.023	< 0.025	0.233	0.084J	< 0.024	< 0.024	< 0.025
Acenaphthylene	37163.64	<0.013	0.45J	0.058J	<0.014	<0.015	0.574J	0.037J	0.040J	0.045J	< 0.015
Acetophenone Aniline	1700.00 92.50	<0.024	<0.025 <0.021	0.068J <0.021	<0.026	0.046J <0.024	0.951 <0.024	0.487 <0.024	<0.026 <0.023	<0.027	<0.028 <0.024
Anthracene	100000.00	< 0.021	0.021	0.113	< 0.022	< 0.016	0.072J	< 0.015	< 0.025	0.053J	0.025J
Atrazine (Aatrex)	8.60	< 0.058	< 0.059	< 0.058	< 0.061	< 0.066	< 0.066	< 0.065	< 0.063	< 0.064	< 0.066
Benzaldehyde	344.36	<0.035R	<0.036R	<0.035R	<0.037R	<0.040R	<0.040R	<0.040R	<0.038R	<0.039R	<0.040R
Benzidine	0.01	<1.96	<1.96	<1.98	< 2.06	<2.22	<2.24	<2.20	<2.11	<2.16	<2.22
Benzo(a)anthracene	2.30	< 0.017	0.275	0.217	< 0.018	<0.019	<0.019	<0.019	<0.018	0.094	0.060J
Benzo(a)pyrene	0.23	<0.023	0.188	0.162	<0.024	<0.026 <0.014	<0.026	<0.025	<0.024	0.103 0.293J	0.062J
Benzo(b)fluoranthene Benzo(g,h,i)perylene	2.30 18581.82	<0.012	0.295J 0.236J	0.346J 0.286J	<0.013	<0.014	<0.014	<0.014	<0.013 0.181J	0.293J 0.328J	0.244J 0.228J
Benzo(k)fluoranthene	23.00	<0.011	0.079J	0.074J	< 0.011	<0.012	<0.012	<0.020	< 0.019	0.065J	0.038J
Benzoic acid	496.39	< 0.136	< 0.137	< 0.137	< 0.143	< 0.154	< 0.155	< 0.152	< 0.146	< 0.149	< 0.154
Benzyl alcohol	6245.03	< 0.046	< 0.046	< 0.046	< 0.048	< 0.052	< 0.052	< 0.051	< 0.049	< 0.050	< 0.052
Biphenyl	193.66	< 0.013	0.062J	0.058J	0.029J	<0.015	0.435J	0.180J	<0.014	< 0.014	<0.015
Bis(2-Chloroethoxy)methane	6.25	<0.022	<0.022	<0.022	<0.023	<0.025	<0.025	<0.024	<0.023	<0.024	<0.025
Bis(2-Chloroethyl)ether Bis(2-Chloroisopropyl)ether	0.62 107.99	<0.030	<0.030	<0.030	<0.031	<0.034	<0.034	<0.033	<0.032 <0.022	<0.033	<0.034
Bis(2-Ethylhexyl)phthalate	140.00	< 0.020	0.020	0.501	0.112	< 0.023	< 0.023	< 0.023	0.115	0.022	0.123
Butyl benzyl phthalate	240.00	< 0.00828			< 0.00871	< 0.00938	< 0.00947	< 0.00930		<0.00909	
Caprolactam	234.60	< 0.042	27.5	< 0.042	< 0.044	< 0.047	< 0.00347	< 0.047	< 0.045	< 0.046	< 0.047
Carbazole	96.00	< 0.028	< 0.028	< 0.028	< 0.030	< 0.032	< 0.032	< 0.032	< 0.030	< 0.031	< 0.032
Chrysene	230.00	< 0.013	0.377J	0.215J	< 0.014	< 0.015	< 0.015	< 0.015	0.023J	0.133J	0.081J
Dibenz(a,h)anthracene	0.23	< 0.011	< 0.011	< 0.011	< 0.011	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dibenzofuran	1700.00	< 0.014	< 0.014	< 0.014	< 0.014	< 0.015	< 0.016	< 0.015	< 0.015	< 0.015	< 0.015

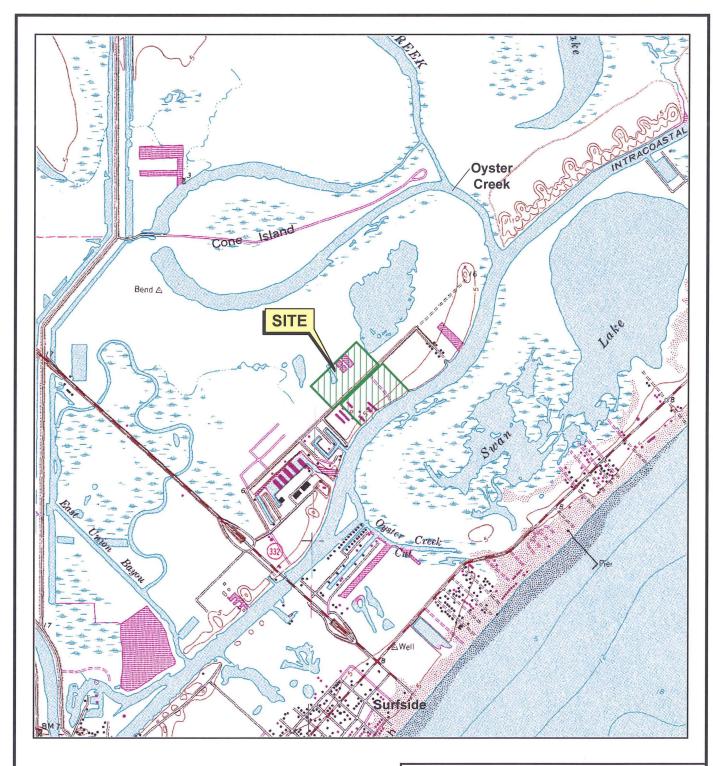
TABLE 6 - SOIL ANALYTICAL DATA RELATIVE TO COMPARISON CRITERIA⁽¹⁾

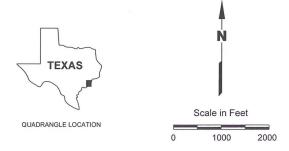
		SAMPLE DESIGNATION ⁽³⁾									
Chemicals of Interest	Comparison Criteria ⁽²⁾	T-15-F	T-21-F	NC-0-0.3	Т-2-	T-6- FLOOR	T-6- EAST	T-6- SOUTH	T-6- NORTH	SC-W	SC-E
Diethyl phthalate	2041.30	< 0.036	< 0.037	< 0.037	< 0.038	< 0.041	< 0.041	< 0.041	0.044J	0.045J	< 0.041
Dimethyl phthalate	932.98	< 0.00870	< 0.00877	< 0.00876	< 0.00914	< 0.00985	< 0.00994	< 0.00976	< 0.00937	< 0.00955	< 0.00985
Di-n-butyl phthalate	16229.73	< 0.00948	< 0.00956	< 0.00955	0.015J	0.013J	< 0.011	0.017J	< 0.010	< 0.010	< 0.011
Di-n-octyl phthalate	27000.00	< 0.013	< 0.013	< 0.013	< 0.014	< 0.015	< 0.015	< 0.014	< 0.014	< 0.014	< 0.015
Fluoranthene	24000.00	0.017J	0.352J	0.42	< 0.00913	< 0.00984	0.040J	0.048J	0.015J	0.178J	0.111J
Fluorene	24775.76	< 0.012	0.16	0.115	0.020J	< 0.014	0.268	0.106	< 0.013	< 0.013	0.018J
Hexachlorobenzene	1.20	< 0.047	< 0.047	< 0.047	< 0.049	< 0.053	< 0.054	< 0.053	< 0.051	< 0.052	< 0.053
Hexachlorocyclopentadiene	10.18	< 0.059	< 0.059	< 0.059	< 0.062	< 0.066	< 0.067	< 0.066	< 0.063	< 0.064	< 0.066
Hexachloroethane	140.00	< 0.058	< 0.059	< 0.059	< 0.061	< 0.066	< 0.067	< 0.065	< 0.063	< 0.064	< 0.066
Indeno(1,2,3-cd)pyrene	2.30	< 0.016	0.257J	0.312J	< 0.017	< 0.018	< 0.018	< 0.018	< 0.017	0.333J	0.259J
Isophorone	1903.23	< 0.013	< 0.013	< 0.013	< 0.014	< 0.015	< 0.015	< 0.014	< 0.014	< 0.014	< 0.015
Nitrobenzene	110.00	< 0.018	< 0.018	< 0.018	< 0.019	< 0.021	< 0.021	< 0.020	< 0.020	< 0.020	< 0.021
n-Nitrosodimethylamine	0.04	< 0.020	< 0.020	< 0.020	< 0.021	< 0.023	< 0.023	< 0.022	< 0.021	< 0.022	< 0.022
n-Nitrosodi-n-propylamine	0.27	< 0.020	< 0.020	< 0.020	< 0.021	< 0.023	< 0.023	< 0.023	< 0.022	< 0.022	< 0.023
n-Nitrosodiphenylamine	390.00	< 0.012	< 0.013	< 0.013	< 0.013	< 0.014	< 0.014	< 0.014	< 0.013	< 0.014	< 0.014
o-Cresol	1922.57	< 0.012	< 0.012	< 0.012	< 0.013	< 0.014	0.156J	< 0.013	< 0.013	< 0.013	< 0.014
Pentachlorophenol	10.00	< 0.032	< 0.032	< 0.032	< 0.034	< 0.036	< 0.037	< 0.036	< 0.035	< 0.035	< 0.036
Phenanthrene	18581.82	< 0.016	1.18	0.493	0.024J	< 0.018	0.29	0.129	0.019J	0.105	0.077J
Phenol	2384.11	< 0.019	< 0.019	< 0.019	< 0.020	< 0.022	< 0.022	< 0.021	0.092J	< 0.021	< 0.022
Pyrene	18581.82	< 0.055	0.832J+	0.380J	< 0.058	< 0.062	0.063J	< 0.062	< 0.059	0.220J	0.122J
Pyridine	142.66	< 0.022	< 0.022	< 0.022	< 0.023	< 0.025	< 0.025	< 0.025	< 0.024	< 0.024	< 0.025

Notes:

- 1. All values in mg/kg.
- $2. \ \ Comparison \ \ Criteria \ are \ the \ lower \ of \ the \ chemical \ of \ interest's EPA \ Region \ 6 \ Soil \ Screening \ Criteria \ value \ and \ TCEQ \ ^{Tot}Soil_{Comb} \ value.$
- $3.\ Sample$ locations are as follows (see text for additional descriptions):
- T-15-F: from base of scraped area approximately 0.8 ft. below ground surface (bgs)
- T-21-F: from base of scraped area approximately 0.5 ft. bgs
- NC-0-0.3: from containment area floor surface to depth of 0.3 ft. bgs $\,$
- T-2-WEST: west wall of excavation, near southwest corner, 2.5 ft bgs
- T-6-FLOOR: floor of excavation, 5.8 ft bgs
- T-6-EAST: east wall of excavation, 4.0 ft bgs
 T-6-SOUTH: south wall of excavation, 4.5 ft bgs
- T-6-NORTH: north wall of excavation, 2.0 ft bgs
- SC-W: clay surface at base of trench, 0.7 ft bgs
- SC-E: clay surface at base of trench, 0.7 ft bgs
- 4. Bold values exceed comparison criteria.
- 5. Data Qualifiers: J = estimated value; J+=estimated value, biased high; R=rejected value.







Base map taken from http://www.tnris.state.tx.us Freeport, Texas 7.5 min. U.S.G.S. quadrangle, 1974.

GULFCO MARINE MAINTENANCE FREEPORT, BRAZORIA COUNTY, TEXAS

Figure 1

SITE LOCATION MAP

PROJECT: 1597	BY: ZGK	REVISIONS
DATE: MARCH, 2011	CHECKED: EFP	

PASTOR, BEHLING & WHEELER, LLC

CONSULTING ENGINEERS AND SCIENTISTS



EXPLANATION

Gulfco Marine Maintenance
Site Boundary (approximate)

Lot Boundary (approximate)



Approx. Scale in Feet

0 125 250

GULFCO MARINE MAINTENANCE FREEPORT, BRAZORIA COUNTY, TEXAS

Figure 2

SITE MAP

PROJECT: 1597	BY: ZGK	REVISIONS
DATE: MARCH, 2011	CHECKED: EFP	

PASTOR, BEHLING & WHEELER, LLC

CONSULTING ENGINEERS AND SCIENTISTS

Source of photo: H-GAC, Texas aerial photograph, 2006.



EXPLANATION



Monitoring Well Location -Zone A



Note: Tank numbers, except 100, from LTE, 1999. Tank 100 (empty tank) removed by Hurricane Ike storm surge in September 2008.

Source of photo: H-GAC, Texas aerial photograph, 2006.



GULFCO MARINE MAINTENANCE FREEPORT, BRAZORIA COUNTY, TEXAS

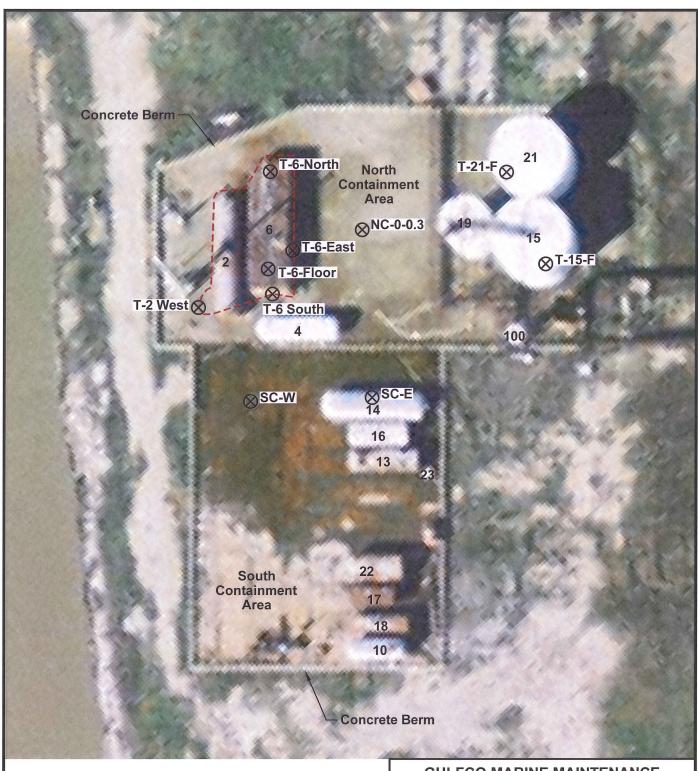
Figure 3

FORMER AST TANK FARM AREA MAP

PROJECT: 1597	BY: ZGK	REVISIONS
DATE: MARCH, 2011	CHECKED: EFP	

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EXPLANATION



Sample Location

Approximate Extent of Excavation Beneath Tank Nos. 2 and 6

Note: Tank numbers, except 100, from LTE, 1999. Tank No. 100 (empty tank) removed by Hurricane Ike storm surge in September 2008. Verification samples collected in January 2011 after all tanks removed. Locations are approximate

Approx. Scale in Feet 15

GULFCO MARINE MAINTENANCE FREEPORT, BRAZORIA COUNTY, TEXAS

Figure 4

FORMER AST TANK FARM VERIFICATION SAMPLE LOCATIONS

PROJECT: 1597	BY: ZGK	REVISIONS
DATE: MARCH, 2011	CHECKED: EFP	

PASTOR, BEHLING & WHEELER, LLC

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Source of photo: H-GAC, Texas aerial photograph, 2006.

APPENDIX A REMOVAL ACTION WORK PLAN

GULFCO MARINE MAINTENANCE SUPERFUND SITE REMOVAL ACTION WORK PLAN

JUNE 9, 2010

GULFCO MARINE MAINTENANCE SUPERFUND SITE REMOVAL ACTION WORK PLAN

I. INTRODUCTION

A. Purpose of the Work Plan

This Work Plan sets forth certain requirements for completion of a removal action to remove or eliminate certain wastes, thereby eliminating or reducing risks from potential exposure pathways from those wastes at or from the Gulfco Marine Maintenance Superfund Site (the "Site"). The work described herein shall be implemented upon EPA's signing of the Administrative Settlement Agreement and Order on Consent for Removal Action (AOC).

B. Description of Action

An aboveground storage tank farm ("AST Tank Farm") located in the southern portion is to be addressed by this Removal Action. The AST Tank Farm is a concrete bermed area containing 14 above-ground storage tanks (a fifteenth tank, Tank No. 100, which was empty, was removed from the Site in September 2008 by Hurricane Ike storm surge), three of which appear to be empty. The tank locations and designations are shown on Figure 1. The contents of the tanks are to be removed and the tanks demolished. The concrete containment slab and walls will remain in place, except that the walls shall be breached so that rainfall will freely drain from the structure. Any accumulated water contained within the bermed area shall be characterized and properly managed. Any buried pipes will be capped at the surface after removing the contents of the pipes. The tanks' contents and structures, containerized wastes, and debris will be properly managed off-site.

The specific objectives for the AST Tank Farm Removal Action are: (1) to prevent the release of chemicals of concern that are stored in the tanks and any other containers, and (2) to prevent the exposure of site workers and visitors to chemicals of concern remaining in the tanks following removal of the stored liquids and other materials. The tanks contain water, various organic phases, oily sludges, and sand, rust solids, and debris. The tanks' contents include: benzene; chloroform; 1,2-dichloroethane; trichloroethylene; tetrachloroethylene; vinyl chloride; and petroleum hydrocarbons in various concentrations.

II. WORK TO BE PERFORMED

A. Preconstruction Activities

Preconstruction activities will consist of a Site inspection and assessment, and preparation of a Health and Safety Plan (HASP). The HASP will be prepared in compliance with Occupational Safety and Health Administration and EPA requirements. The HASP will be submitted to EPA and will be in place prior to any onsite construction activities. Site inspection and assessment shall begin with cutting weeds and vegetation as necessary to perform a visual inspection of the removal action area. This inspection shall be performed for safety purposes and to identify any drums or containers, which shall be visually inspected, inventoried, labeled with a control number, and logged, as necessary.

Sampling and Analysis Plan

Sampling of the AST contents was performed during the period from December 14 through 15, 2006 in accordance with a Work Plan dated November 6, 2006 (and addendum dated December 1, 2006) that were approved by an EPA letter dated December 4, 2006. As part of sampling activities, fluid levels were gauged in all ASTs and samples were collected from separate solid and liquid phases within the tanks, where present. In addition to the AST samples, samples of water accumulated within the north and south containment areas of the AST Tank Farm were collected on December 14, 2006. The AST and water samples were transported to Gulf Coast Analytical Laboratories, Inc. (GCAL) in Baton Rouge, Louisiana for analysis for various waste characterization parameters (e.g., reactivity, corrosivity, ignitability, toxicity). The results of these analyses are summarized on attached Tables 1 through 4. The original laboratory reports for these analyses were included in a report describing the tank sampling activities that was submitted to EPA on April 4, 2007. A summary of the projected tank volumes based on the gauging estimates is provided in Table 5.

The AST and water sample data listed in Tables 1 through 4 will be used for the classification and profiling of waste streams for off-site management (treatment, disposal and/or recycling) as acceptable to the intended management facilities. Possible off-site waste management facilities are listed in Table 6. All materials will be managed at a facility that is in compliance with EPA's "Off-Site Rule". Should more recent or additional data be required by these facilities or the tank removal contractor, additional sampling and analyses will be performed as described below. Additional samples may be collected from the accumulated water within each of the north and south containment areas if necessary to evaluate possible discharge or other management options for that material. Sampling of accumulated sludge (if any) within the containment berms will be performed as necessary.

<u>Tank Gauging</u> – Prior to sampling or content removal (if sampling is not required), each AST will be gauged to verify the approximate content volume. For gauging and sampling purposes, the tanks will be accessed utilizing ladders and/or man lifts. Gauging will be performed using various devices, such as weighted lines, gauge

rulers, visible means, or other appropriate method based on the tank size and location, content characteristics, and content volume.

<u>Sample Collection</u> – Samples will be collected using dippers, sampling thieves and/or other sampling devices as appropriate depending on tank size, content type (solid or liquid) and content volume in order to obtain a representative sample. One representative sample will be collected from each tank waste stream. Containment area water and sludge samples will be collected directly from the containment areas using dippers, bailers, and/or other appropriate devices.

All sampling equipment will be decontaminated prior to use. Disposable equipment meant to be used only once and discarded will be decontaminated prior to use, unless the equipment is properly packaged and sealed. All non-disposable components of the sampling equipment will be decontaminated as follows:

- Potable water rinse;
- Liqui-nox® detergent wash;
- DI water rinse:
- Liqui-nox® detergent wash;
- DI water rinse; and
- Air dry.

A methanol or hexane rinse may be used if evidence of organic staining is found after equipment has been cleaned. Following decontamination, the sampling equipment will be placed in bags or sealed to keep the equipment clean during storage. All liquids generated as a result of decontamination processes will be containerized and handled as investigation-derived waste (IDW).

Samples will be transferred from the sampling devices to sample containers in a central staging area near the AST Tank Farm. Sample containers will be prepared specifically for the required analyses by the analytical laboratory. Any required preservatives will be placed in the sample containers by the laboratory prior to shipment to the Site.

To prevent misidentification of samples, labels will be affixed to each sample container. Information will be written on the label with a permanent marker. The labels will be sufficiently durable to remain legible even when wet and will contain the following information:

- Sampling identification name;
- Name or initials of collector:
- Date and time of collection;
- Analysis required (if space on label allows); and
- Preservative inside bottle, if applicable.

Sample custody, packaging and shipment will be performed in accordance with Standard Operating Procedure (SOP) No. 6 in the approved Gulfco RI/FS Field Sampling

Plan (FSP) (PBW, 2006a). Samples will be placed in shipping coolers containing bagged, cubed ice immediately following collection. Samples will be shipped to the laboratory via an overnight courier service, generally on the day they are collected.

Evidence of collection, shipment, and laboratory receipt must be documented on a Chain-of-Custody record by the signature of the individuals collecting, shipping and receiving each sample. A sample is considered in custody if it is:

- In a person's actual possession;
- In view, after being in physical possession;
- Sealed so that no one can tamper with it, after having been in physical custody; and/or
- In a secured area restricted to authorized personnel.

Chain-of-Custody Records will be used, by all personnel, to record the collection and shipment of all samples. The Chain-of-Custody Record may specify the analyses to be performed and should contain at least the following information:

- Name and address of originating location of samples;
- Name of laboratory where samples are sent;
- Any pertinent directions/instructions to laboratory;
- Sample type (e.g., aqueous);
- Listing of all sample bottles, size, identification, collection date and time, and preservative, if any, and type of analysis to be performed by the laboratory;
- Sample ID;
- Date and time of sample collection; and
- Signature of collector as relinquishing, with date/time.

The Chain-of-Custody procedure will be as follows:

- 1) The field technician collecting the sample shall be responsible for initiating the Chain-of-Custody Record. Samples can be grouped for shipment on a common form.
- 2) Each time responsibility for custody of the samples changes, the receiving and relinquishing custodians will sign the record and note the date and time.
- The Chain-of-Custody Record shall be sealed in a watertight container, placed in the shipping container, and the shipping container sealed prior to giving it to the carrier. The carrier waybill shall serve as an extension of the Chain-of-Custody Record between the final field custodian and receipt in the laboratory. The commercial carrier is not considered part of the COC chain and is not required to sign the COC.
- 4) Upon receipt in the laboratory, a designated individual shall open the shipping containers, measure and record cooler temperature, compare the contents with the

- Chain-of-Custody Record, and sign and date the record. Any discrepancies shall be noted on the Chain-of-Custody Record.
- 5) If discrepancies occur, the samples in question shall be segregated from normal sample storage and the project manager will be notified for clarification.
- 6) Chain-of-Custody Records, including waybills, if any, shall be maintained as part of the project records.

Sample Analyses - The analytical suite for AST and accumulated sludge samples (if any) will be determined based on the requirements of the removal action contractor and/or the off-site waste management facility to be used for the specific waste stream to be evaluated. Based on the previous data in Table 4, containment area water samples (if needed) will be analyzed for volatile organic compounds (VOCs), pesticides and metals using the methods listed for water samples in the approved RI/FS FSP. Considering the intended use of these data, validation will be performed at Data Review Level 2 as described in the approved Gulfco RI/FS Quality Assurance Project Plan QAPP (PBW, 2006b). Sample analyses will be performed by GCAL, whose laboratory QAPP was provided as Appendix G of the RI/FS QAPP. All analytical data collected for this removal action shall be provided electronically to EPA.

Construction Quality Assurance Plan

The Construction Quality Assurance Plan (CQAP) for the removal action at the AST Tank Farm is provided below. This plan describes the project-specific components of the performance methods and quality assurance program to ensure that the completed project meets or exceeds all design criteria, plans, and specifications.

Responsibilities and Authorities - The Construction Quality Assurance (CQA) Officer will be Eric Pastor, P.E. of Pastor, Behling & Wheeler, LLC (PBW). Mr. Pastor will be assisted in the day-to-day project inspection activities by other PBW personnel, all of whom will have an appropriate level of engineering and/or consulting experience for their assigned responsibilities. EPA and/or its contractors may perform additional construction inspection/oversight at EPA's discretion.

<u>CQA Qualifications</u> - Mr. Pastor's and PBW's qualifications were provided to EPA in a letter dated August 26, 2005. As noted above, all inspection personnel will have an appropriate level of engineering and/or consulting experience for their assigned responsibilities.

<u>CQA Inspection and Verification Activities</u> – A CQA inspector will be on-site to monitor the performance of all tank content removal, truck loading, tank decontamination, and tank demolition activities; verify compliance with environmental requirements; and ensure compliance with all health and safety procedures. The CQA inspector will verify that removal action activities have been performed in accordance with this Work Plan and the project specifications. A CQA inspector will also collect the containment berm water and sludge (if any) samples as described above. CQA

inspection documentation will be performed in accordance with SOP No. 1 provided in Appendix A of the approved RI/FS FSP. This documentation will be retained in the project files in accordance with the requirements of Section XI of the AOC.

Regulatory Compliance Plan

In accordance with the National Contingency Plan, removal actions under Section 106 of CERCLA are required to meet the substantive requirements of other laws unless an ARAR waiver is granted by the lead regulatory agency. Compliance with the administrative requirements (e.g., permitting, administrative reviews, reporting, and record keeping) of other laws is not required under CERCLA. The substantive ARARs are divided into the three categories:

- Chemical-specific requirements, health- or risk-based numerical values, or methodologies that specify the acceptable amount or concentration of a chemical that may be found in, or discharged to, the environment;
- Location-specific requirements- restrictions placed on the types of activities that can be conducted or on the concentration of hazardous substances that can be present solely because of the location where they will be conducted; and
- Action-specific requirements- technology or activity-based requirements or limitations on actions taken with respect to hazardous wastes.

<u>Chemical-specific requirements</u> – The primary chemical-specific requirements for the removal action at the AST Tank Farm are the chemical-specific waste classification standards under 30 TAC 335 Subchapter R and the hazardous waste identification requirements in 40 CFR Part 261. These requirements will be used for the classification of the tank contents prior to removal and off-site management.

<u>Location-specific requirements</u> – No location-specific requirements were identified for this removal action.

<u>Action-specific requirements</u> – Action-specific requirements for the removal action at the Former AST Tank Farm include the following:

• Texas Commission on Environmental Quality (TCEQ) standards for hazardous waste generators (30 TAC Chapter 335, Subchapter C), including the Land Disposal Restrictions (Chapter 335, Subchapter 0) for any wastes to be landfilled will apply. Procedures to be implemented for compliance with generator requirements include completion of a One-Time Shipment Request for Texas Waste Code For Shipment of Hazardous and Class 1 Waste (TCEQ Form 0757) and/or other required forms. Compliance with off-site waste shipment requirements including, U.S. Department of Transportation (DOT) regulations contained in 49 C.F.R. 173, and 179 and placarded regulations in 49 C.F.R. 172 will be ensured through the use of only permitted waste haulers. Compliance with off-site waste management requirements, including Resource Conservation and Recovery Act (RCRA), 42 U.S.C. § 6901, et seq. at 40 C.F.R. 260 et seq. and

June 9, 2010

related Texas state requirements will be ensured through the use of only the potential facilities listed in Table 6. Compliance with the provisions of the NCP, 40 C.F.R. 300.440, with regard to EPA approval of the off-site waste management facilities will be performed through EPA approval of this Work Plan.

• TPDES permit requirements for wastewater discharge will be used to determine limits for discharge of water collected within the AST Tank Farm containment berms to the Intracoastal Waterway.

Waste Management Plan

The AST data listed in Tables 1 through 4, as supplemented by additional data collected through the sampling and analytical activities described in this Work Plan, will be used for the classification and profiling of waste streams for off-site management (treatment, disposal and/or recycling) as acceptable to the intended management facilities. Hazardous and non-hazardous wastes, as well as non-waste materials, shall be handled and managed in accordance with all applicable or relevant and appropriate requirements. To the extent possible based on tank content volumes, characteristics and waste classifications, the tank contents will be transferred directly from the tanks to the waste haulers (typically vacuum tankers) for liquid waste. Waste loads will be transported to one or more of the facilities listed in Table 6. All off-site transportation and management will be performed in accordance with applicable USDOT requirements. All materials will be managed at a facility that is in compliance with EPA's "Off-Site Rule". Wastewater from tank decontamination operations will be handled similarly. Following decontamination through triple rinsing, tanks not identified for re-use will be cut up and sold as scrap or disposed as non-hazardous waste. All loads will be properly manifested prior to leaving the Site.

Emissions Control Plan

During tank liquid content transfer operations, tank vapors will be vented through carbon canister or similar devices. Air exhaust from vacuum trucks and any other exhaust that potentially could contain volatile emissions shall be captured and treated onsite with vapor-phase carbon.

Ambient air monitoring will be periodically performed by the remediation contractor while tank contents are being transferred from the ASTs to trucks, and while gauging and sampling (if any) of the ASTs is being performed. Monitoring will be performed for total organic vapors using an organic vapor meter with a photoionization detector. Ambient air monitoring will be performed both within the work zone and on the downwind perimeter of the work area. Air monitoring results within the work area will be evaluated in accordance with procedures established in the HASP. If a sustained reading (more than 60 seconds) of 10 ppmv or higher is measured at a perimeter monitoring location, work activities upwind of that location will temporarily cease. Monitoring will then be performed at that location every five minutes for 15 minutes (three times). If concentrations of total organic vapors subside below the 10 ppmv action level, work may resume with continued focused monitoring performed at that location. If

total organic vapor concentrations do not subside below the 10 ppmv action level, or if vapor concentrations consistently return to 10 ppmv or higher after work is resumed, the PBW and EPA Project Managers will be notified and potential engineering and/or other controls and contingency plans will be discussed and implemented as necessary prior to further work resumption. During tank content transfer activities, additional monitoring may be performed using chemical-specific Draeger tubes. Monitoring measurements will be recorded by contractor personnel and will be included in the Final Report.

Contingency Plan

This contingency plan describes procedures to minimize hazards to human health and the environment from fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste constituents, procedures to be followed in the event of a spill, and procedures to be followed for movement of equipment and personnel from low-lying areas during a high water event.

Spill Prevention – In order to minimize the potential for spills or release of hazardous constituents to the environment, liquid tank contents will be transferred directly to transport trucks when possible. Potential spills at the tanks during this process will be contained by the existing tank containment berms. Receiving trucks will be loaded within temporary loading areas constructed to contain potential spills during the loading process. Spill control and cleanup kits along with fire extinguishers and eye wash kits will be located in the AST Tank Farm and loading areas.

Spill Response/Notification – In the event of a spill, field crews will immediately contain the spill as necessary to prevent a release and notify on-site CQA and EPA representatives. If not on-site, the EPA OSC will be notified immediately thereafter. In the event of any spill which causes or threatens a release of waste material from the Site that constitutes an emergency situation or may present an immediate threat to public health or welfare or the environment, Respondents shall immediately notify the OSC or, in the event of his/her unavailability, the Regional Duty Officer, Emergency Planning and Response Branch, EPA Region 6, 214-665-3166, and the EPA Regional Emergency 24hour telephone number, 1-866-372-7745. In addition, in the event of any release of a hazardous substance from the Site which, pursuant to Section 103 of CERCLA, requires reporting to the National Response Center, Respondents shall immediately notify the National Response Center at (800) 424-8802 and then the OSC at (866) 372-7745.-. A written report will be submitted to EPA within 7 days after a release of a hazardous substance from the Site that requires reporting to the National Response Center pursuant to Section 103(a) of CERCLA, 42 U.S.C. § 9603(a), setting forth the events that occurred and the measures taken or to be taken to mitigate any release or endangerment caused or threatened by the release and to prevent the recurrence of such a release.

Site Activities during High Water Event – In the event that a high water condition (storm surge or hurricane) is predicted for the Site during the performance of the Work, the remediation contractor will take appropriate precautions to secure tanks, staging areas and equipment. Depending on the specific conditions, these precautions may include evacuation of the Site. The remediation contractor and the COA officer will work closely

with the EPA representatives to determine the appropriate precautions to be taken on a case by case basis depending on the timing and severity of the predicted high water conditions.

Health and Safety Plan

Prior to Site mobilization, the remediation contractor for the AST Tank Farm removal action will prepare a HASP in accordance with EPA's Standard Operating Safety Guide (PUB 9285.1-03, PB 92-963414, June 1992) and all currently applicable regulations found at 29 CFR 1910.120. The HASP will ensure the protection of the public health and safety during performance of the removal action and will be submitted to EPA for review. Changes to the plan recommended by EPA will be incorporated into the final plan that will be implemented during the pendency of the removal action. All requirements under the Occupational Safety and Health Act (OSHA) of 1970, 29 U.S.C. § 651 et seq., and under the laws of the State approved under Section 18 of the Federal OSHA laws, as well as other applicable safety and health requirements, will be followed. Federal OSHA requirements include Hazardous Materials Operation, 20 CFR § 1910, as amended by 54 Fed. Reg. 9317 (March, 1989), all OSHA General Industry (29 CFR § 1910) and Construction (29 CFR § 1926) standards wherever they are applicable, as well as OSHA record keeping and reporting regulations, and the EPA regulations set forth in 40 CFR § 300, relating to the conduct of work at Superfund sites.

Schedule

The AST Tank Farm removal action will be implemented as described herein. The HASP was previously submitted to EPA for information only but not approval on March 30, 2010. The removal action field activities shall be completed within ninety (90) calendar days of the Effective Date of the AOC. The Draft Tank Removal Report shall be submitted to EPA within one hundred twenty (120) calendar days of the Effective Date of the AOC. The Final Tank Removal Report shall be submitted to EPA within fourteen (14) calendar days following receipt of EPA comments on the draft Removal Report. Any associated documentation (e.g., transporter and disposal facility manifests, weigh tickets, etc.) received after the Final Report is submitted will be provided as an addendum to the report.

B. Mobilization and Site Preparation

Mobilization and site preparation will involve mobilizing personnel, equipment, supplies and incidentals onto the project site; establishing all offices and facilities necessary to implement the project; and preparation of the site for the construction work. The major components of site preparation are:

 <u>Utility Connections</u> - Supplying electrical and potable water sources within the work area limits.

- <u>Clearing and Grubbing</u> Clearing and grubbing and/or mowing areas as required for access to the work and surrounding areas and for constructing roads, work areas, and staging areas.
- <u>Temporary Road Construction</u> Constructing temporary roads as necessary to provide access and egress to the site, and access and egress to the work areas.
- <u>Work/Staging Area</u> Constructing work, staging and containment areas.

C. Removal Action Activities

AST Tank Farm removal action activities will consist of the following tasks:

Task 1 – Accumulated Water Removal – The purpose of this task is to remove any water accumulated within the containment berms in order to facilitate subsequent removal action activities. Data from water samples and other related information will be submitted to the TCEQ for determination of discharge limits that meet substantive TPDES permit requirements. If the water sample concentrations do not exceed these limits, the water will be discharged directly to the Intracoastal Waterway. If the water sample concentrations exceed the discharge limits, then the water will be transported for off-site management at one of the facilities listed in Table 6, or another facility approved in advance by EPA. This task will include the following:

- a. Sample and analyze the accumulated water, as needed, to confirm previous data, evaluate management options and facilitate removal;
- b. As necessary, transfer the water to temporary storage tanks to allow the removal action to continue pending determination of water discharge/management options;
- c. Appropriately manage (discharge or otherwise manage) the accumulated water based on the sample analyses and management option evaluation, in accordance with all applicable state and federal regulations; and
- d. Secure all records documenting the water characterization and subsequent management.

Task 2 – Container Content Removal and Disposal - The purpose of this task is to remove residual materials within AST Tank Farm containers followed by off-site management. Specifically, the liquid and sludge/solid contents of the above-ground storage tanks will be removed from the tanks and either recycled or disposed at one of the potential facilities listed in Table 6. To the extent possible based on tank content volumes, characteristics and waste classifications, the liquid tank contents will be transferred directly from the tanks to the waste haulers (typically vacuum tankers). The removal method for the tank contents will be determined after selection of the remedial contractor and will be selected and implemented to control volatile emissions. Debris that is encountered will be removed by suitable methods and placed into lined roll-off containers that will be covered except while the debris is being added. Transport of

residual containerized materials/wastes to appropriate off-site management facilities will be performed in accordance with all applicable state and federal regulations. All records documenting the waste stream characteristics, classifications, quantities and final management locations will be secured as part of this task.

<u>Task 3 – Container Removal</u> - The purpose of this task is to remove containers associated with former Site operations (e.g., ASTs and drums) from the AST Tank Farm area. The following activities will be performed as part of this task:

- a. Evaluate the potential for re-use of containers. Based on this evaluation, identify containers for re-use and containers for demolition and disposal/recycling;
- b. Decontaminate containers intended for re-use. Implement decontamination procedures on a container-specific basis considering former content characteristics and process knowledge. Decontamination procedures for containers intended for re-use will include the following:
 - 1. Remove material adhered to container sides using shovel or other tool;
 - 2. Scrub with a brush and detergent (or alternative cleaning solution as appropriate);
 - 3. Rinse with water;
 - 4. Repeat above steps; and
 - 5. Evaluate container condition and repeat one or more of above steps as necessary to provide visible indication of sufficient decontamination for container re-use. Alternative decontamination methods may be used as necessary and appropriate depending on the container contents and its intended re-use.
- c. Manage all decontamination fluids in accordance with applicable state and federal regulations. Document decontamination procedures used;
- d. Remove re-usable containers from the Site following proper decontamination. Document recipient of container to be reused; and
- e. Decontaminate and demolish all containers not suitable for re-use.

Decontamination procedures for containers intended for demolition will include the following:

- 1. Remove material adhered to container sides using shovel or other tool;
- 2. Scrub with a brush and detergent (or alternative cleaning solution as appropriate);

- 3. Rinse with water; and
- 4. Evaluate container condition and repeat one or more of above steps as necessary to provide visible indication of sufficient decontamination for container demolition. Alternative decontamination methods may be used as necessary and appropriate depending on the container contents and the demolition method to be used.

Demolition may be performed on or off-site. Secure a certificate of destruction for each item demolished. Transport tank demolition debris off-site for recycling or disposal.

 $\underline{\text{Task 4} - \text{AST Containment Area Decontamination}}$ - The purpose of this task is to decontaminate the former AST containment areas. The following activities will be performed as part of this task:

- a. Sample and analyze residual sludge (if any) within the containment berms to evaluate management options and facilitate waste classification (if needed);
- b. Remove and manage the sludge (if any) in accordance with all applicable state and federal regulations;
- c. Thoroughly pressure-wash the concrete floor and berms of the former AST Tank Farm and manage all washwater in accordance with all applicable state and federal regulations.
- d. Demolish sections of the concrete containment berms at multiple locations as needed to preclude potential future water accumulation within this area (the number, area and locations where the berms will be demolished will be determined after an evaluation of water flow/accumulation patterns within the containment area during the pressure washing); and
- e. Secure all records documenting the sludge characterization and subsequent management.

D. Emissions Control

The emissions control plan described above will be implemented throughout the removal and material-handling phases of the removal action to control air emissions. As noted therein, the air exhaust from any vacuum trucks and any other exhaust that potentially could contain volatile emissions (not including routine motor vehicle/construction equipment exhaust) will be captured and treated onsite with vaporphase carbon.

E. Site Restoration and Demobilization

After completion of the removal action, the temporary roads and work areas will be dismantled and removed. Personnel, equipment, office trailer, supplies and incidentals

that were used on the removal project will be removed from the site, unless required for the completion of other work at the Site.

F. Preparation of Final Report

Any associated documentation (e.g., transporter and disposal facility manifests, weigh tickets, etc.) received after the Final Report is submitted will be provided as an addendum to the report. The Final Report will summarize the activities performed and will be submitted to the RPM/OSC for review and approval. The Final Report will include a listing of quantities and types of materials removed off-site or handled on-site, a discussion of removal and disposal options considered for those materials removed, a listing of the ultimate destination(s) of those materials, a presentation of the analytical results of all sampling and analyses performed, and accompanying appendices containing all relevant documentation generated during the removal action.

III. REFERENCES

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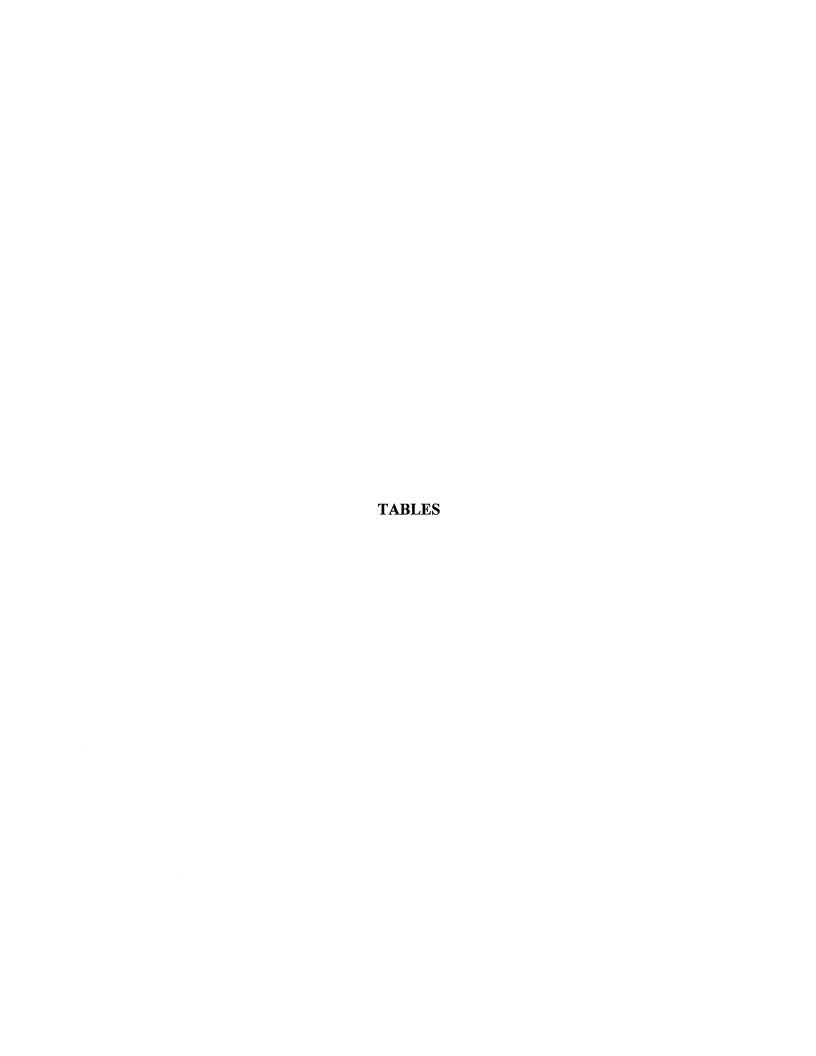


Table 1
Gulfco Former AST Tank Farm
Tank Sample - RCI/Toxicity Data

Tank No.	Sample ID.	Physical Description	H.	Beactivity Sulfide	B Reactivity Cyanide	Deg. F.	Arsenic	Barinm mg/L	Benzene Beg/L	Cadminm mg/L	B Carbon Tetrachloride
				ррпі	ppiii	Deg. 1.	IIIg/L	IIIg/L	i ilig/L	i ilig/L	IIIg/L
Tank No. 2	TK-2-O	Aqueous Phase	NA	NA	NA	NA	<0.0024	12.1	<0.177	NA	NA
	TK-2-O	Organic Phase	5.95	112	<250	>212	<0.0024	8.19	0.415 J	0.0033 B	<0.013
	TK-2-S	Solids- sand, debris, etc.	NA	NA	NA NA	NA	<0.0024	2.82	24.1	0.0038 B	<0.256
TI-NI- 4	TIC 4 A	01-146-4		400	1050	> 040	40.0004	00.7	40.000477	0.040	40.000000
Tank No. 4	TK-4-A	Oily Water	7.4	<96	<250	>212	<0.0024	29.7	<0.000177	0.016	<0.000336
Tank No. 6	TK-6-S	Rust Solids	NA	NA	NA	NA	<0.0024	0.89 B	<0.009	0.002 B	<0.00512
Tank No. 13	TK-13-O	Oily sludge	6.89	80	<250	>212	<0.0024	0.27 B	13.8	<0.00022	<0.128
Tank No. 14	None	Empty (2 in. of rust solids)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tank No. 15	TK-15-O	Oily sludge	6.38	<80	<250	126	<0.0024	0.22 B	5.3	<0.00022	<0.00512
Tank No. 16	TK-16-O	Oily sludge	6.31	<80	<250	>212	<0.0024	0.39 B	<0.009	<0.00022	<0.00512
Tank No. 17	TK-17-S	Rust solids	NA	NA	NA	NA	<0.0024	0.56 B	<0.009	0.0012 B	<0.00512
Tank No. 18	TK-18-O	Light Organic Phase	3.37	<417	<250	90	<0.024	0.53 B	<9	<0.0022	<5.12
Tank No. 19	TK-19-O	Oily sludge	6.75	216	<250	104	<0.0024	1.33	<4.5	<0.00022	<2.56
Tank No. 21	TK-21-A	Oily water	8.5	<80	<250	>212	<0.0024	0.0021 B	51.6 J	<0.00022	<5.12
Tank No. 22	TK-22-O	Oily sludge	6.74	<80	<250	>212	<0.0024	0.28 B	<0.009	<0.00022	<0.00512
Tank No. 23	TK-23-O (mg/kg)	Appears to be diesel	6.72	160	<250	126	<0.16	0.26B	<2.08	<0.013	<2.4
North Containment Area	Dike North	Water	NA	NA	NA NA	NA	0.012	1.17	0.011	<0.00019	0.00889 J
South Containment Area	Dike South	Water	NA	NA	NA	NA	0.024	0.49	0.015	<0.00019	<0.000336
Hazardous Criteria			= 2 or /= 12.5	>/= 500	>/= 250	<140	5	100	0.5	1	0.5

Table 1
Gulfco Former AST Tank Farm
Tank Sample - RCI/Toxicity Data

Tank No.	Sample ID.	Physical Description	Chlordane	Chlorobenzene	Chloroform	Chromium	o-Cresol	m.p-Cresol	Cresol	1,2-Dichloroethane	1,4-Dichlorobenzene	, 2,4-D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Tank No. 2	TK-2-O TK-2-O TK-2-S	Aqueous Phase Organic Phase Solids- sand, debris, etc.	NA <0.00008 <0.00008	<0.162 <0.021 <0.426	1.5 J 2.25 20.7	0.16 <0.0012 0.0045 B	<0.409 <0.0012 0.00275 J	<0.368 <0.0014 <0.0014	NA <0.003 0.00414 J	7.97 8.4 203	<0.0538 <0.0011 <0.0011	NA <0.0027 <0.0027
Tank No. 4	TK-4-A	Oily Water	NA	<0.000162	<0.00018	<0.0012	<0.00327	<0.00295	NA	<0.000176	<0.000538	<0.00027
Tank No. 6	TK-6-S	Rust Solids	<0.00008	<0.00852	<0.00776	<0.0012	<0.0012	<0.0014	<0.003	<0.0082	<0.0011	<0.0027
Tank No. 13	TK-13-0	Oily sludge	<0.00008	<0.213	1.32 J	<0.0012	<0.0012	0.00143 J	<0.003	2.73 J	<0.0011	<0.0027
Tank No. 14	None	Empty (2 in. of rust solids)	NA	NA NA	NA	NA	NA	NA	NA	NA	NA	NA
Tank No. 15	TK-15-O	Oily sludge	<0.00008	<0.00852	<0.00776	<0.0012	<0.013 J	<0.0014	0.013 J	<0.0082	<0.0011	<0.0027
Tank No. 16	TK-16-O	Oily sludge	<0.00008	<0.00852	<0.00776	<0.0012	<0.0012	0.037 J	0.037 J	<0.0082	<0.0011	<0.0027
Tank No. 17	TK-17-S	Rust solids	<0.0004	<0.00852	<0.00776	<0.0012	<0.0012	<0.0014	<0.003	<0.0082	<0.0011	<0.0027
Tank No. 18	TK-18-O	Light Organic Phase	<0.01431	<8.52	216	<0.012	<0.1764	<0.2134	<0.444	<8.2	<0.1577	<0.0027
Tank No. 19	TK-19-O	Oily sludge	<0.00008	<4.26	<3.88	<0.0012	0.0046 J	<0.0014	0.00486 J	<4.1	<0.0011	<0.0027
Tank No. 21	TK-21-A	Oily water	<0.00008	<8.52	2100	<0.0012	<0.0012	<0.0014	<0.003	224	<0.0011	<0.0027
Tank No. 22	TK-22-O	Oily sludge	<0.00008	<0.00852	<0.00776	<0.0012	<0.0012	0.00364 J	0.00364 J	<0.0082	<0.0011	<0.0027
Tank No. 23	TK-23-O (mg/kg)	Appears to be diesel	NA	<3.31	<2.83	<0.049	NA	NA	NA	<2.28	<8.44	NA
North Containment Area	Dike North	Water	NA	<0.000324	0.095	0.0028 B	<0.000327	<0.000295	NA	0.045	<0.00108	<0.0027
South Containment Area	Dike South	Water	NA	<0.000162	0.03	0.0031 B	<0.000327	<0.000295	NA	0.00304 J	<0.000538	<0.00027
Hazardous Criteria	1	1	0.03	100	6	5	200	200	200	0.5	7.5	10

Table 1
Gulfco Former AST Tank Farm
Tank Sample - RCI/Toxicity Data

Tank No.	Sample ID.	Physical Description	1,1-Dichloroethene	2,4-Dinitrotoluene	Endrin	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Hexachlorobutadiene	Hexachloroethane	Lead
Tank No.	Cample 1D.	1 Hysical Description	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
									_		
Tank No. 2	TK-2-O	Aqueous Phase	<0.205	<0.579	NA	NA 10.00004	NA 10.0000E	<0.32	<0.45	<1.05	<0.0013
	TK-2-O TK-2-S	Organic Phase Solids- sand, debris, etc.	<0.023 <0.458	<0.0036 <0.0036	<0.00007 <0.00007	<0.00004 <0.00004	<0.0005 <0.0005	<0.0015 <0.0015	<0.0017 <0.0017	<0.0016 <0.0016	0.043 B 0.0084 B
	1111-2-0	Solids- Salid, debits, etc.	\0. 4 30	~0.0000	<u> </u>	10.00004	10.0003	VO.0013	VO.0017	40.0010	0.0004 D
Tank No. 4	TK-4-A	Oily Water	<0.000205	<0.00464	<0.0000832	<0.0000439	0.00065	<0.00256	<0.00045	<0.00842	0.28
Tank No. 6	TK-6-S	Rust Solids	<0.00916	<0.0036	<0.00007	<0.00004	<0.00005	<0.0015	<0.0017	<0.0016	0.0028 B
Tank No. 13	TK-13-O	Oily sludge	<0.229	<0.0036	<0.00007	<0.00004	0.00057	<0.0015	<0.0017	<0.0016	0.0035 B
Tank No. 14	None	Empty (2 in. of rust solids)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tank No. 15	TK-15-O	Oily sludge	<0.00916	<0.0036	<0.00007	<0.00004	<0.00005	<0.0015	<0.0017	<0.0016	<0.0013
Tank No. 16	TK-16-O	Oily sludge	<0.00916	<0.0036	<0.00007	<0.00004	<0.00005	<0.0015	<0.0017	<0.0016	<0.0013
Tank No. 17	TK-17-S	Rust solids	<0.00916	<0.0036	<0.00033	<0.00019	<0.00024	<0.0015	<0.0017	<0.0016	0.022 B
Tank No. 18	TK-18-O	Light Organic Phase	<9.16	<0.5339	<0.01182	0.029 J	<0.00862	<0.2179	<0.248	<0.2358	<0.013
Tank No. 19	TK-19-O	Oily sludge	<4.58	<0.0036	<0.00007	<0.00004	<0.00005	<0.0015	<0.0017	<0.0016	0.0056 B
Tank No. 21	TK-21-A	Oily water	<9.16	<0.0036	<0.00007	<0.00004	<0.00005	<0.0015	<0.0017	<0.0016	<0.0013
Tank No. 22	TK-22-O	Oily sludge	<0.00916	<0.0036	<0.00007	<0.00004	<0.00005	<0.0015	<0.0017	<0.0016	<0.0013
Tank No. 23	TK-23-O (mg/kg)	Appears to be diesel	<3.19	NA	NA	NA NA	NA	NA	<24.9	NA	<0.097
North Containment Area	Dike North	Water	<0.000411	<0.000464	<0.00000832	<0.00000439	<0.00000732	<0.000256	<0.0009	<0.000842	<0.0013
South Containment Area	Dike South	Water	<0.000205	<0.000464	<0.00000832	<0.00000439	0.0000329	<0.000256	<0.00045	<0.000842	0.0044 B
Hazardous Criteria			0.7	0.13	0.02	0.008	0.008	0.13	0.5	3	5

Table 1
Gulfco Former AST Tank Farm
Tank Sample - RCI/Toxicity Data

Tank No.	Sample ID.	Physical Description	mg/L	Mercury	Methoxychlor	MEK mg/L	Mitrobenzene	B Pentachlorophenol	Byridine	Selenium	Silver Mg/L
						9.2	g/ _	g/ L	mg/L	1119	
Tank No. 2	TK-2-O	Aqueous Phase	<0.00003	0.00004	NA	13.4	<0.452	<1.33	<0.437	0.03 B	<0.0006
	TK-2-O	Organic Phase	<0.00003	0.00037	<0.00032	· 9.77	<0.0008	<0.0037	<0.0182	<0.0046	<0.0006
	TK-2-S	Solids- sand, debris, etc.	<0.00003	0.00014 B	<0.00032	30	<0.0008	<0.0037	<0.0182	<0.0046	<0.0006
Tank No. 4	TK-4-A	Oily Water	0.00035	0.00017 B	0.0018 J	0.011	<0.00362	<0.011	<0.00349	<0.0046	<0.0006
Talik No. 4	1117-4-77	Ony vvaler	0.0003	0.00017 15	0.00103	0.011	<u> </u>	70.011	~0.00349	\0.00 1 0	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Tank No. 6	TK-6-S	Rust Solids	<0.00003	0.00013 B	<0.00032	<0.017	<0.0008	<0.0037	<0.0182	0.014 B	<0.0006
Tank No. 13	TK-13-O	Oily sludge	<0.00003	0.00012 B	<0.00032	<0.429	<0.0008	<0.0037	<0.0182	0.006 B	<0.0006
Tank No. 14	None	Empty (2 in. of rust solids)	NA NA	NA NA	NA	NA	NA NA	NA	NA	NA	NA
Talik No. 14	None	Empty (2 in. or rust solius)	INA	INA	INA	INA	INA	INA	INA	IVA	IVA
Tank No. 15	TK-15-O	Oily sludge	<0.00003	0.00039	<0.00032	0.085 J	<0.0008	<0.0037	<0.0182	0.0095 B	<0.0006
Tank No. 16	TK-16-O	Oily sludge	<0.00003	0.00011 B	<0.00032	0.367	<0.0008	<0.0037	<0.0182	0.013 B	<0.0006
Tank No. 17	TK-17-S	Rust solids	0.0185	0.00015 B	<0.00162	<0.017	<0.0008	<0.0037	<0.0182	<0.0046	<0.0006
Tank No. 17	1110-17-0	Trust solids	0.0103	0.00013 D	10.00102	10.017	1 10.0000	10.0007	10.0102	70.0070	\0.0000
Tank No. 18	TK-18-O	Light Organic Phase	<0.00556	<0.0048	<0.05816	<17.2	<0.1262	<0.5607	<2.74	0.88 B	<0.006
Tank No. 19	TK-19-O	Oily sludge_	<0.00003	0.00008 B	<0.00032	<8.58	<0.0008	<0.0037	<0.0182	0.0064 B	<0.0006
T1. N 04	TI(04 A	-		0.00040.0	.0.0000	.47.0	.0.000	.0.0007	.0.0400	.0.00.10	
Tank No. 21	TK-21-A	Oily water	<0.00003	0.00012 B	<0.00032	<17.2	<0.0008	<0.0037	<0.0182	<0.0046	<0.0006
Tank No. 22	TK-22-O	Oily sludge	<0.00003	0.00013 B	<0.00032	0.874	<0.0008	<0.0037	<0.0182	0.0067 B	<0.0006
Tank No. 23	TK-23-O (mg/kg)	Appears to be diesel	NA	0.011	NA	<6.25	NA	NA	, NA	1.6B	<0.047
			 								
North Containment Area	Dike North	Water	<0.00000255	<0.00004	<0.00000214	<0.00217	<0.000362	<0.00106	<0.000349	0.0049 B	<0.0006
	JIKO HOTUT		-0.00000200	-0.00004	0.00000214	30.00217	-0.000002	-0.00100	.0.000078	0.00 1 0 D	-0.0000
South Containment Area	Dike South	Water	<0.00000255	<0.00004	<0.00000214	<0.00109	<0.000362	<0.00106	<0.000349	<0.0046	<0.0006
Hazardous Criteria			0.4	0.2	10	200	2	100	5	1	5

Table 1
Gulfco Former AST Tank Farm
Tank Sample - RCI/Toxicity Data

Tank No.	Sample ID.	Physical Description	Tetrachloroethylene	Toxaphene	Trichloroethylene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4,5-TP (Silvex)	Vinyl Chloride
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Tank No. 2	TK-2-O TK-2-O TK-2-S	Aqueous Phase Organic Phase Solids- sand, debris, etc.	<0.768 <0.023 55.7	NA <0.00025 <0.00025	0.851 J 1.52 205	<0.508 <0.001 <0.001	<0.525 <0.0021 <0.0021	NA <0.0016 <0.0016	<0.383 0.247 J <0.01
Tank No. 4	TK-4-A	Oily Water	<0.000768	<0.00275	0.00102 J	<0.00406	<0.00042	<0.00013	<0.000383
Tank No. 6	TK-6-S	Rust Solids	<0.00908	<0.00025	0.027 J	<0.001	<0.0021	<0.0016	<0.00356
Tank No. 13	TK-13-0	Oily sludge	47.7	<0.00025	2.98 J	<0.001	<0.0021	<0.0016	0.988 J
Tank No. 14	None	Empty (2 in. of rust solids)	NA	NA	NA	NA	NA	NA	NA
Tank No. 15	TK-15-O	Oily sludge	<0.00908	<0.00025	<0.011	<0.001	<0.0021	<0.0016	<0.00356
Tank No. 16	TK-16-O	Oily sludge	<0.00908	<0.00025	<0.011	<0.001	<0.0021	<0.0016	<0.00356
Tank No. 17	TK-17-S	Rust solids	<0.00908	<0.00125	<0.011	<0.001	<0.0021	<0.0016	<0.00356
Tank No. 18	TK-18-O	Light Organic Phase	<9.08	<0.045	<10.8	<0.1552	<0.3149	<0.0016	<3.56
Tank No. 19	TK-19-O	Oily sludge	<4.54	<0.00025	<5.4	<0.001	<0.0021	<0.0016	<1.78
Tank No. 21	TK-21-A	Oily water	<9.08	<0.00025	<10.8	<0.001	<0.0021	<0.0016	<3.56
Tank No. 22	TK-22-O	Oily sludge	<0.00908	<0.00025	<0.011	<0.001	<0.0021	<0.0016	<0.00356
Tank No. 23	TK-23-O (mg/kg)	Appears to be diesel	<3.85	NA	<3.55	NA	NA	NA	<7.03
North Containment Area	Dike North	Water	0.00627 J	<0.000275	0.018	<0.000406	<0.00042	<0.00013	<0.000765
South Containment Area	Dike South	Water	<0.000768	<0.000275	<0.000702	<0.000406	<0.00042	<0.00013	<0.000383
Hazardous Criteria	<u> </u>	.1	0.7	0.5	0.5	400	2	1	0.2

Table 1 Gulfco Former AST Tank Farm Tank Sample - RCI/Toxicity Data

Tank No.	Sample ID.	Physical Description	Comments
			•
Tank No. 2	TK-2-O TK-2-O	Aqueous Phase Organic Phase	Total Data TCLP Data
	TK-2-S	Solids- sand, debris, etc.	TCLP Data
Tank No. 4	TK-4-A	Oily Water	Total Data
Tank No. 6	TK-6-S	Rust Solids	TCLP Data
Tank No. 13	TK-13-O	Oily sludge	TCLP Data
Tank No. 14	None	Empty (2 in. of rust solids)	
Tank No. 15	TK-15-O	Oily sludge	TCLP Data
Tank No. 16	TK-16-O	Oily sludge	TCLP Data
Tank No. 17	TK-17-S	Rust solids	TCLP Data
Tank No. 18	TK-18-O	Light Organic Phase	TCLP Data
Tank No. 19	TK-19-O	Oily sludge	TCLP Data
Tank No. 21	TK-21-A	Oily water	TCLP Data
Tank No. 22	TK-22-O	Oily sludge	TCLP Data
Tank No. 23	TK-23-O (mg/kg)	Appears to be diesel	Total Data (mg/kg)
North Containment Area	Dike North	Water	Total Data
South Containment Area	Dike South	Water	Total Data
Hazardous Criteria			

Table 2
Gulfco Former AST Tank Farm
Tank Sample TPH/PCB Data

			1			1	I				
Tank No.	Sample ID.	Physical Description	C6-C12	>C12-C28	>C28-C35	Total TPH (C6-C35)	Arachlor-1016	Arachlor-1221	Arachlor-1232	Arachlor-1242	Arachlor-1248
Tank No. 4	TK-4-A	Oily Water	16.7J	130	<26.6	147	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Tankitto			10110				5,5555	5,555		3,333	
Tank No. 6	TK-6-S	Rust Solids	<100	1,140	1,630	2,770	<1.2	<1.2	<1.2	<1.2	<1.2
Tank No. 13	TK-13-O	Oily sludge	<10	468,000	275,000	743,000	<120	<120	<120	<120	<120
Tank No. 15	TK-15-O	Oily sludge	135,000	719,000	197,000	>99%	<1.2	<1.2	<1.2	<1.2	<1.2
Tank No. 16	TK-16-O	Oily sludge	<20	761,000	512,000	>99%	<1.2	<1.2	<1.2	<1.2	<1.2
Tank No. 17	TK-17-S	Rust solids	<111	880	360	1,240	<1.33	<1.33	<1.33	<1.33	<1.33
Tank No. 18	TK-18-O	Light Organic Phase	961,000	37,800	<50	999,000	<1.2	<1.2	<1.2	<1.2	<1.2
Tank No. 19	TK-19-O	Oily sludge	59,600	441,000	128,000	629,000	<1.2	<1.2	<1.2	<1.2	<1.2
Tank No. 21	TK-21-A	Oily water	<20	51,400	266,000	780,000	<99.3	<99.3	<99.3	<99.3	<99.3
Tank No. 22	TK-22-O	Oily sludge	<20	789,000	449,000	>99%	<1.2	<1.2	<1.2	<1.2	<1.2
Tank No. 23	TK-23-O	Appears to be diesel	260,000	1,230,000	<50	>99%	<1.2	<1.2	<1.2	<1.2	<1.2
North Containment Area	Dike North	Water	<5.42	2.5J	<5.42	2.5J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
South Containment Area	Dike South	Water	<5.36	<5.36	<5.36	<16.1	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Table 2
Gulfco Former AST Tank Farm
Tank Sample TPH/PCB Data

	1				T
Tank No.	Sample ID.	Physical Description	Arachlor-1254	Arachlor-1260	Comments
Tank No. 4	TK-4-A	Oily Water	<0.0005	<0.0005	mg/L
Tunk No. 1	110,170	Ony Water	10.0000	-0.0000	ling/E
Tank No. 6	TK-6-S	Rust Solids	<1.2	<1.2	mg/kg
Tank No. 13	TK-13-O	Oily sludge	<120	<120	mg/kg
Tank No. 15	TK-15-O	Oily sludge	<1.2	<1.2	mg/kg
Tank No. 16	TK-16-O	Oily sludge	<1.2	<1.2	mg/kg
Tank No. 17	TK-17-S	Rust solids	<1.33	<1.33	mg/kg
Tank No. 18	TK-18-O	Light Organic Phase	<1.2	<1.2	mg/kg
Tank No. 19	TK-19-0	Oily sludge	<1.2	<1.2	mg/kg
Tank No. 21	TK-21-A	Oily water	<99.3	<99.3	mg/kg
Tank No. 22	TK-22-O	Oily sludge	<1.2	<1.2	mg/kg
Tank No. 23	TK-23-O	Appears to be diesel	<1.2	<1.2	mg/kg
North Containment Area	Dike North	Water	<0.0005	<0.0005	mg/L
South Containment Area	Dike South	Water	<0.0005	<0.0005	mg/L

Table 3
Gulfco Former AST Tank Farm
TK-21-A Sample Total Concentrations - Detected Values

Parameter	Concentration (mg/kg)
VOCs	
1,2-Dichloroethane	663
Benzene	121 J
Chloroform	6,850
Isopropylbenzene (Cumene)	119 J
Methylene chloride	241 J
Toluene	179 J
SVOCs	
2-Methylnapthalene	145 B
Benzaldehyde	123 J
Biphenyl	54.4 J
Bis(2-Ethylhexyl)phthalate	36.5 J
Caprolactum	2,410
Crysene	23.3 J
Fluorene	82.7 J
Phenanthrene	283
Pyrene	85.5 J
Metals	
Barium	7.09
Cadmium	0.062 J
Calcium	304
Chromium	2.28
Iron	1,660
Lead	2.44
Manganese	9.61
Mercury	0.027
Selenium	0.92 J
Silver	0.12 J
TPH (TX 1005)	
>C12-C28	514,000
>C28-C35	266,000
Total TPH	780,000
Pesticides/Herbicides	
Endosulfan I	1.25 J
Endosulfan II	3.72 J
Endrin aldehyde	2.9 J
Endrin ketone	9.6 J
gamma-Chlordane	3.1 J
2,4,5-T	0.446 J

Notes:

- 1. Only chemicals of interest detected above the sample detection limit are included in
- 2. Data qualifiers: J = Estimated value for organics. B = detected in blank sample.

Table 4
Gulfco Former AST Tank Farm
North and South Containment Dike Sample Analytical Results

Parameter	Dike North	Dike South
VOCs	mg/L	mg/L
1,1,1,2-Tetrachloroethane	<0.000965	<0.000482
1,1,1-Trichloroethane	0.031	<0.000461
1,1,2,2-Tetrachloroethane	<0.00024	<0.00012
1,1,2-Trichloroethane	<0.000665	<0.000333
1,1-Dichloroethane	0.00244 J	<0.000237
1,1-Dichloroethene	<0.000411	<0.000205
1,1-Dichloropropene	<0.00058	<0.00029
1,2,3-Trichloropropane	<0.00145	<0.000726
1,2,4-Trichlorobenzene	<0.000422	<0.000211
1,2,4-Trimethylbenzene	0.0037 J	0.00939
1,2-Dibromo-3-chloropropane	<0.00038	<0.00019
1,2-Dibromoethane	<0.000539	<0.000269
1,2-Dichlorobenzene	<0.000801	<0.000401
1,2-Dichloroethane	0.045	0.00304 J
1,2-Dichloropropane	<0.000507	<0.000254
1,3,5-Trimethylbenzene	<0.000422	0.00235 J
1,3-Dichlorobenzene	<0.00063	<0.000315
1,3-Dichloropropane	<0.000511	<0.000255
1,4-Dichlorobenzene	<0.00108	<0.000538
2,2-Dichloropropane	<0.000532	<0.000266
2-Butanone	<0.00217	<0.00109
2-Chloroethylvinyl ether	<0.00109	<0.000547
2-Chlorotoluene	<0.000603	<0.000301
2-Hexanone	<0.000823	<0.000412
4-Chlorotoluene	<0.000661	<0.000331
4-Isopropyltoluene	<0.000242	<0.000121
4-Methyl-2-pentanone	<0.000996	<0.000498
Acetone	<0.00382	0.021 J
Acrolein	<0.00403	<0.00201
Acrylonitrile	<0.00646	<0.00323
Benzene	0.011	0.015
Bromobenzene	<0.000641	<0.000321
Bromodichloromethane	<0.000289	<0.000145
Bromoform	<0.000755	<0.000377
Bromomethane	<0.00155	<0.000774
Carbon disulfide	<0.000487	<0.000244
Carbon tetrachloride	0.00889 J	<0.000336
Chlorobenzene	<0.00324	<0.000162
Chloroethane	<0.00115	<0.00574
Chloroform	0.095	0.03
Chloromethane	<0.00129	<0.000645
cis-1,2-Dichloroethene	0.00513 J	<0.000292
cis-1,3-Dichloropropene	<0.00033	<0.000165
Cyclohexane	0.00293 J	0.000936 J
Dibromochloromethane	<0.000455	<0.000228
Dibromomethane	<0.000756	<0.000378

Table 4
Gulfco Former AST Tank Farm
North and South Containment Dike Sample Analytical Results

Parameter	Dike North	Dike South
VOCs (cont'd)		
Dichlorodifluoromethane	<0.000677	<0.000339
Ethylbenzene	0.011	0.00135 J
Hexachlorobutadiene	<0.0009	<0.00045
Isopropylbenzene (Cumene)	0.00453 J	0.000515 J
m,p-Xylene	0.00292 J	0.011
Methyl Acetate	<0.00169	<0.000847
Methyl iodide	<0.00103	<0.00047
Methylcyclohexane	<0.000378	<0.00042
Methylene chloride	0.012 J	0.000765 J
Naphthalene	0.0123	0.0007033
n-Butyl alcohol	<0.05	<0.025
n-Butyl aconol n-Butylbenzene	<0.00561	<0.00281
n-Propylbenzene	<0.000609	<0.000305 0.00476 J
o-Xylene	0.00189 J <0.000598	0.00476 J <0.000299
sec-Butylbenzene		
Styrene (MTDE)	<0.000304	<0.000152
tert-Butyl methyl ether (MTBE)	<0.000358	<0.000179
tert-Butylbenzene	<0.000573	<0.000287
Tetrachloroethene	0.00627 J	<0.000768
Toluene	0.00791 J	0.033
trans-1,2-Dichloroethene	<0.000747	<0.000374
trans-1,3-Dichloropropene	<0.000359	<0.00018
trans-1,4-Dichloro-2-butene	<0.00143	<0.000717
Trichloroethene	0.018	<0.000702
Trichlorofluoromethane	<0.00051	<0.000255
Trichlorotrifluoroethane	<0.00072	<0.00036
Vinyl acetate	<0.000756	<0.000378
Vinyl chloride	<0.000765	<0.000383
Xylene (total)	0.00481 J	0.016
SVOCs		
1,2Diphenylhydrazine/Azobenzen	<0.000204	<0.000204
2,4,5-Trichlorophenol	<0.000406	<0.000406
2,4,6-Trichlorophenol	<0.00042	<0.00042
2,4-Dichlorophenol	<0.000387	<0.000387
2,4-Dimethylphenol	<0.00131	<0.00131
2,4-Dinitrophenol	<0.00112	<0.00112
2,4-Dinitrotoluene	<0.000464	<0.000464
2,6-Dinitrotoluene	<0.00041	<0.00041
2-Chloronaphthalene	<0.000343	<0.000343
2-Chlorophenol	<0.000344	<0.000344
2-Methylnaphthalene	<0.000102	<0.000102
2-Nitroaniline	<0.000267	<0.000267
2-Nitrophenol	<0.000522	<0.000522
3,3'-Dichlorobenzidine	<0.00208	<0.00208
3-Nitroaniline	<0.0004	<0.0004
4,6-Dinitro-2-methylphenol	<0.000284	<0.000284
4-Bromophenyl phenyl ether	<0.000366	<0.000366
4-Chloro-3-methylphenol	<0.000408	<0.000408

Table 4
Gulfco Former AST Tank Farm
North and South Containment Dike Sample Analytical Results

Parameter -	Dike North	Dike South
SVOCs (cont'd)	DIRC NOTES	- Bike coult
4-Chloroaniline	<0.000786	<0.000786
4-Chlorophenyl phenyl ether	<0.000786	<0.000786
4-Nitroaniline	<0.000546	<0.000564
4-Nitrophenol	<0.00201	<0.00201
Acenaphthene	<0.00201	<0.00201
Acenaphthylene		<0.000135
	<0.000884	
Acetophenone	0.00633 J	<0.000371
Aniline	<0.000556	<0.000556
Anthracene	<0.000102	<0.000102
Atrazine (Aatrex)	<0.00205	<0.00205
Benzaldehyde	<0.00121	<0.00121
Benzidine	<0.00718	<0.00718
Benzo(a)anthracene	<0.0000796	<0.0000796
Benzo(a)pyrene	<0.00015	<0.00015
Benzo(b)fluoranthene	<0.000165	<0.000165
Benzo(g,h,i)perylene	<0.000141	<0.000141
Benzo(k)fluoranthene	<0.0000662	<0.000662
Benzoic acid	<0.001	<0.001
Benzyl alcohol	<0.000442	<0.000442
Biphenyl	<0.000341	<0.000341
Bis(2-Chloroethoxy)methane	<0.000241	<0.000241
Bis(2-Chloroethyl)ether	<0.00047	<0.00047
Bis(2-Chloroisopropyl)ether	<0.000528	<0.000528
Bis(2-Ethylhexyl)phthalate	<0.00191	<0.00191
Butyl benzyl phthalate	<0.000356	<0.000356
Caprolactam	<0.00258	<0.00258
Carbazole	<0.000293	<0.000293
Chrysene	<0.000563	<0.000563
Dibenz(a,h)anthracene	<0.000257	<0.000257
Dibenzofuran	<0.00032	<0.00032
Diethyl phthalate	<0.000257	<0.000257
Dimethyl phthalate	<0.000206	<0.000206
Di-n-butyl phthalate	<0.000944	<0.000944
Di-n-octyl phthalate	<0.000889	<0.000889
Fluoranthene	<0.000155	<0.000155
Fluorene	<0.00011	<0.00011
Hexachlorobenzene	<0.000256	<0.000256
Hexachlorocyclopentadiene	<0.000597	<0.000597
Hexachloroethane	<0.000842	<0.000842
Indeno(1,2,3-cd)pyrene	<0.000158	<0.000158
Isophorone	<0.00024	<0.00024
m,p-Cresol	<0.000295	<0.000295
Nitrobenzene	<0.000362	<0.000362
n-Nitrosodimethylamine	<0.00101	<0.00101
n-Nitrosodi-n-propylamine	<0.000313	<0.000313
n-Nitrosodiphenylamine	<0.00051	<0.00051
o-Cresol	<0.00037	<0.00037
Pentachlorophenol	<0.000027	<0.00106
	1	2.23.00

Table 4
Gulfco Former AST Tank Farm
North and South Containment Dike Sample Analytical Results

Parameter	Dike North	Dike South	
SVOCs (cont'd)			
Phenanthrene	<0.000137	<0.000137	
Phenol	<0.000325	<0,000325	
Pyrene	<0.000899	<0.000899	
Pyridine	<0.000349	<0.000349	
Metals			
Arsenic	0.012	0.024	
Barium	1.17	0.49	
Cadmium	<0.00019	<0.00019	
Calcium	45.4	7.36	
Chromium	0.0028 B	0.0031 B	
Hardness	192	34.9	
Iron	0.6	1.52	
Lead	<0.0013	0.0044 B	
Manganese	0.034	0.043	
Mercury	<0.0004	<0.0004	
Selenium	0.0049 B	<0.0046	
Silver	<0.0006	<0.0006	
TPH (TX 1005)	10.0000	10.0000	
>C12-C28	2.5 J	<0.815	
>C28-C35	<0.824	<0.815	
C6-C12	<0.249	<0.247	
Total TPH (C6-C35)	2.5 J	<1.88	
Pesticides/Herbicides	2.00	-11.00	
4,4'-DDD	0.00095	0.00021	
4,4'-DDE	<0.0000556	0.00021 0.00004 J	
4,4'-DDT	0.00026	0.00027	
Aldrin	<0.0000261	0.000027 0.00000336 J	
alpha-BHC	0.0000466	0.0000113 J	
alpha-Chlordane	<0.0000274	<0.00001103	
beta-BHC	<0.00000274	<0.00000274	
delta-BHC	<0.0000232	<0.0000032	
Dieldrin	0.0000427 J	<0.00000471	
Endosulfan I	0.00022	0.0000508	
Endosulfan II	0.00019	0.000043 J	
Endosulfan sulfate	0.00095	0.0000878	
Endrin	<0.0000832	<0.00000832	
Endrin aldehyde	0.00037	<0.00000484	
Endrin ketone	0.000053	<0.00000404	
gamma-BHC (Lindane)	<0.000035	<0.00000420	
gamma-Chlordane	<0.0000542	<0.00000233	
Heptachlor	<0.00000342	<0.00000342	
Heptachlor epoxide	<0.00000732	0.0000329	
Methoxychlor	<0.00000732	<0.0000329	
Toxaphene	<0.000275	<0.0000214	
2,4,5-T	<0.000273	<0.000273	
2,4,5-TP (Silvex)	<0.00013	<0.00013	
2,4-D	<0.00013	<0.00013	

Table 4
Gulfco Former AST Tank Farm
North and South Containment Dike Sample Analytical Results

Parameter	Dike North	Dike South
PCBs		
Aroclor-1016	<0.000125	<0.000125
Aroclor-1221	<0.000115	<0.000115
Aroclor-1232	<0.0001	<0.0001
Aroclor-1242	<0.000125	<0.000125
Aroclor-1248	<0.00065	<0.00065
Aroclor-1254	<0.000105	<0.000105
Aroclor-1260	<0.00012	<0.00012
TDS/TSS		
Total Dissolved Solids(TDS)	976	973
Total Suspended Solids	15	11

Notes:

J = Estimated value for organics.

B = Estimated value for metals.

Table 5
Gulfco Former AST Tank Farm
Tank Content Projected Quantities

Tank No.	Description	Projected Quantity ¹ (gallons) ²
Tank No. 2	Organic/Aqueous Mixture Solids - sand, debris (cy)	1,600 10
Tank No. 4	Oily Water	13,000
Tank No. 6	Rust Solids (cy)	106
Tank No. 10	Empty	0
Tank No. 13	Oily sludge	3,000
Tank No. 14	Empty (2 in. of rust solids)	0
Tank No. 15	Oily sludge	40,000
Tank No. 16	Oily sludge	2,500
Tank No. 17	Empty (Minimal rust solids)	0
Tank No. 18	Light Organic Phase	3,000
Tank No. 19	Oily sludge	8,000
Tank No. 21	Oily water	55,500
Tank No. 22	Oily sludge	6,000
Tank No. 23	Appears to be diesel	375
Tank No. 100 ³	Empty	0
Totals	Liquid (gals) Solids (cy)	132,975 116

Notes:

¹ Projected quantity based on CHESI field measurements (12-06) and LTE, 1999 tank volumes.

²Quanitities are in gallons unless listed otherwise (cy of solids in Tank Nos. 2 and 6).

³Tank No. 100 (empty tank) removed by Hurricane Ike storm surge in September 2006.

Table 6
Gulfco Former AST Tank Farm
Potential Off-site Tank Content Management Facilities

Name	Туре	Location	Permit(s)
Clean Harbors Environmental Services	Fuels Blending, Incinerator	Deer Park, Texas	TXD055141378
Waste Management - Coastal Plains	Landfill	Alvin, Texas	MSW Permit # 1721A
Waste Management - Lake Charles	Landfill	Sulphur, Louisiana	LAD000777201





Approx. Scale in Feet

15

Note:
Tank numbers, except 100, from LTE, 1999. Tank 100 (empty tank) removed by Hurricane Ike storm surge in September 2008.

Source of photo: H-GAC, Texas aerial photograph, 2006.

FORMER AST TANK FARM AREA MAP

PROJECT: 1352	BY: ZGK	REVISIONS
DATE: DEC., 2009	CHECKED: EFP	

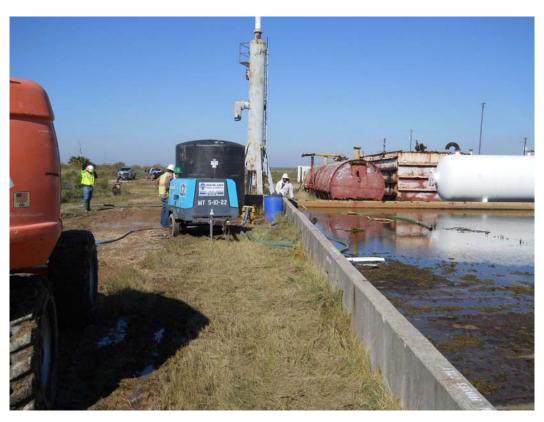
PASTOR, BEHLING & WHEELER, LLC

CONSULTING ENGINEERS AND SCIENTISTS

APPENDIX B REMOVAL ACTION PHOTOGRAPHS



Photograph 1 – Looking southeast at North Containment during EEI mobilization and setup. Holes have been cold-cut in large ASTs to allow access for pumping liquids.



Photograph 2 – Looking north along west side of AST Tank Farm – first pumping of accumulated water from the containment areas.



Photograph 3 – Looking south along east side of east barge slip – pumping water from containment areas into the Intracoastal Waterway.



Photograph 4 – Looking south in South Containment following rain event in late-December 2010. South Containment Area water sample was collected beyond blue drum on left side of photograph.



Photograph 5 – Accumulated water in footprint of Tank No. 6 following rain event in late-December 2010. One of two North Containment Area water samples was collected from this location.



Photograph 6 – Accumulated water in low area around Tank No. 21 (left) and Tank No. 15 (right) following rain event in late-December 2010. The second of two North Containment Area water samples was collected near the upended bottom of Tank No. 21.



Photograph 7 – Asbestos inspector collecting sample of the flange gasket on the east end of Tank No. 10.



 $Photograph\ 8-Contractors\ using\ cutting\ torch\ to\ cut\ out\ entire\ flange\ on\ the\ east\ end\ of\ Tank\ No.\ 10\ with\ its\ gasket\ containing\ asbestos.$



Photograph 9 – Contractors placing flange from east end of Tank No. 10 into a drum for storage and disposal. Flange was wrapped in plastic to secure the gasket while the contractor acquired an over-size drum.



Photograph 10 – Pumping liquid wastes from Tank No. 21 into tanker. Note the tanker is staged in temporary containment and tanker vent is connected to a carbon canister (green drum) to collect air vent emissions.



Photograph 11 – Pumping liquid wastes from small ASTs located in the South Containment Area.



Photograph 12 – Pumping liquid wastes directly from ASTs into tanker staged inside temporary containment.



Photograph 13 – Air monitoring performend during pumping activities included periodic checking of the carbon canister exhaust for breakthrough.



Photograph 14 – Truck moving loaded tanker out of temporary containment in preparation for transporting to the Clean Harbors facility.



Photograph 15 – Looking south – the contractor using hydraulic sheers to open Tank No. 21 to allow access for solidification of tank contents after liquids were removed.



Photograph 16 – Looking west – the contractor using hydraulic sheers to open the top of small AST (Tank No. 13) to allow access for solidification of material remaining in the tank.



Photograph 17 – Looking west – Tank No. 21 is on the right and Tank No. 15 is on the left. The contractor is adding fly ash to the contents of Tank No. 21 during solidification activities.



Photograph 18 – Looking south into Tank No. 6 – the contractor is using the trackhoe to mix fly ash with sludge in Tank No. 6 to facilitate solidification.



Photograph 19 – Looking southwest – Tank No. 21 is on the right and Tank No. 15 is on the left. The contractor is using the trackhoe to mix fly ash with the sludge in Tank No. 15 during sludge solidification.



Photograph 20 – Looking south – the contractor is using the trackhoe to mix fly ash with sludge in Tank No. 13 located in the South Containment Area.



Photograph 21 – Looking west – loading solidified sludge from Tank No. 15 to roll-off boxes.



Photograph 22 – Action Resources truck picking up roll-off box loaded with sludge for transport to the Clean Harbors facility.



Photograph 23 – Contractor shoveling out the last of the sludge from the bottom of Tank No. 15. Each AST was decontaminated by hand-shoveling the last of the sludge, and at a minimum scraping, brushing and steam-cleaning. Surfacants were used as needed to remove any residual oily film.



Photograph 24 – Contractor steam-cleaning the bottom of Tank No. 15 after the last of the sludge was scraped out.



Photograph 25 – Contractor decontaminating Tank No. 6 in preparation for demolition.



Photograph 26 – One-half of the bottom of Tank No. 21 after it was decontaminated and readied for demolition.



Photograph 27 – Contractor using a cutting torch to cut the top off of Tank No. 15 as part of the tank demolition and to allow access for tank decontamination.



Photograph 28 – Contractor using the trackhoe to remove the upper portion of Tank No. 15 from the bottom after torch cutting.



Photogrpah 29 – Contractor using the track hoe to demolish small ASTs in the South Containment Area. Demolished and crushed tanks and tank pieces were loaded into scrap boxes (right side of photograph) for transport to the metal recycler.



Photograph 30 – Contractor crushing pieces of Tank Nos. 6 and 15 prior to loading pieces into the scrap box (far left).



Photograph 31 – Contractor loading one-half of Tank No. 14 into scrap box for transport to the metal recycler. Tank No. 14 is the only tank that was not completely demolished on-site.



Photograph 32 – "Air-Mover" with in-line vacuum box used during decontamination of the South Containment Area.



Photograph 33 – Contractor using pressure washer (steam cleaner) and air mover to clean and vacuum mud and sediment from concrete in South Containment Area.



Photograph 34 – Looking east near northeast corner of South Containment Area after cleaning was complete. Note the network of trenches and clay bottom of the trenches.



Photograph 35 – Looking northeast at South Containment Area after the trenches were filled with sandy clay from an off-site quarry.



Photograph 36 – Contractor breaching concrete berm of the South Containment Area at the northeast corner of the containment area, after decontamination was complete and trenches backfilled with sandy clay. The water seen here accumulated after all site-work was completed.



Photograph 37 – Looking northwest at South Containment Area after accumulated water was drained by breaching the concrete berm in both the northwest corner (on left in the distance) and the northeast corner (far right).



Photograph 38 – Looking south at the footprint of Tank No. 6 after the tank was overturned. Floor of containment area beneath the tank was visibly impacted.



Photograph 39 – Looking southeast at the Tank Nos. 2 and 6 excavation area. The footprint of Tank No. 2 is on the right and not visibly impacted other than the far south end. Visibly impacted soil can be seen in the south and east walls of the excavation, below a depth of approximately 2.5 feet below ground surface (center and left side of photograph).



Photograph 40 – Looking north at the footprints of Tank Nos. 15 and 21 after visibly impacted caliche base had been scraped and stockpiled along the east wall of the containment (right side of photograph). The stockpiled material was loaded into a roll-off box for off-site disposal at the Clean Harbors facility.



Photograph 41 – Looking southeast at the Tank Nos. 2 and 6 excavation during backfill with sandy clay. Contractor laid plastic in the excavation prior to backfilling.



Photograph 42 – Looking east at the North Containment Area after excavation and scraped areas were backfilled, all debris removed, and containment area graded to drain to the east.



Photograph 43 – Contractor breaching concrete berm along east side of North Containment Area. Water seen here, and being released with the breaching of the berm, accumulated after site-work was complete, and confirmation water sample was collected, analyzed and evaluated.



Photograph 44 – Looking east – North Containment Area after concrete berm was breached and most of accumulated water had drained.



Photograph 45 – Looking southeast at the former AST Tank Farm after site-work was completed – the former AST Tank Farm is in the center of the photograph. The roll-off boxes contain impacted soil awaiting transport to the Clean Harbors facility.

APPENDIX C TCEQ SURFACE WATER DISCHARGE AUTHORIZATION LETTER

Bryan W. Shaw, Ph.D., *Chairman*Buddy Garcia, *Commissioner*Carlos Rubinstein, *Commissioner*Mark R. Vickery, P.G., *Executive Director*



Texas Commission on Environmental Quality

Protecting Texas by Reducing and Preventing Pollution
July 27, 2010

Mr. Gary Miller
Superfund Division, Region 6 (6SF-RA)
Arkansas/Texas Section
U.S. Environmental Protection Agency
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

Re: Discharge of Accumulated Water within Aboveground Storage Tank Farm Containment

Area, Gulfco Marine Maintenance Site, Freeport, Texas

Dear Mr. Miller:

On April 27, 2010, Pastor, Behling & Wheeler, LLC (PBW), on behalf of LDL Coastal Limited LP (LDL), Chromalloy American Corporation (Chromalloy) and The Dow Chemical Company (Dow), submitted an Industrial Wastewater Permit Application Abbreviated Technical Report (report) for discharge of accumulated water within an aboveground storage tank (AST) Tank Farm containment area at the above-referenced Site to the Texas Commission on Environmental Quality (TCEQ), Remediation Division. The accumulated water is to be removed from the containment area as part of a Removal Action at the AST Tank Farm. PBW requested that the TCEQ review the submitted report and develop effluent limitations to assess whether the accumulated water could be discharged to the nearby Intracoastal Waterway. On April 29, 2010, the TCEQ Remediation Division forwarded the report via interoffice memorandum to the Industrial Permits, Wastewater Permit Section.

Based on the report and supplemental information submitted by PBW on May 11, 2010 in response to a TCEQ request, TCEQ Industrial Permits, Wastewater Permits Section technical staff prepared a memorandum dated June 22, 2010 (see Attachment 1). The memorandum provides water quality- and technology-based effluent limitations for certain specific parameters for the requested discharge. The Table 1 (see Attachment 2) compares the effluent limitations from this memorandum to the maximum concentrations of the parameters in four samples collected by PBW from the AST Tank Farm containment area as reported in the Abbreviated Technical Report.

As shown in Table 1, the maximum sample concentrations for all parameters were below all effluent limitations. Based on this evaluation, the TCEQ recommends that the accumulated water within the AST tank farm containment area can be discharged to the Intracoastal Waterway as requested by PBW. It is recommended that pH measurements be collected prior to discharge to verify that pH values for the discharge are within the specified limitations.

Mr. Gary Miller Page 2 July 27, 2010

Thank you for the opportunity to provide this evaluation. Should you have any questions regarding this recommendation or the attached memorandum, please do not hesitate to contact me at (512) 239-6368.

Sincerely,

Ludmila Voskov, P.G., Project Manager

Superfund Section Remediation Division

Texas Commission on Environmental Quality

LV/sr

Enclosures

cc: Larry Champagne, TCEQ, Remediation Division

Mr. Eric Pastor - Pastor, Behling & Wheeler, LLC, 2201 Doble Creek Drive, Suite 4004, Round Rock, TX 78664

Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

TO:

Luda Voskov, Project Manager

DATE: June 22, 2010

Superfund Section

Remediation Division (MC 221)

Thru

Yvonna Miramontes, Team Leader

Industrial Permits, Wastewater Permits Section (MC 148)

From:

Tres Koenings, Permit Writer

Industrial Permits, Wastewater Permits Section (MC 148)

Subject: Gulfco Marine Maintenance Superfund Site

The following is a summary of our review and recommendations based on the Industrial Wastewater Permit Application Technical Report submitted with the Interoffice Memorandum dated on April 29, 2010.

The Gulfco Marine Maintenance Superfund site has no current business activity. The site was previously used for barge cleaning and maintenance. An aboveground storage tank (AST) Tank Farm, consisting of 14 tanks located within two concrete containment areas, is located in the southern part of the site. This area was used for storage of product heels and wash waters associated with barge cleaning operations. The accumulated storm water from the Tank Farm area needs to be removed and discharged prior to removal of the Tank Farm. Constituents of Concern (COC) include chemicals formerly store in the Tank Farm, which were benzene, chloroform, 1,2-dichloroethane, trichloroethylene, tetrachloroethylene, and vinyl chloride.

The discharge route is directly to the Brazos River Tidal via the Gulf Intracoastal Waterway (GIWW) in Segment No. 1201 of the Brazos River Basin. The designated uses and dissolved oxygen criterion as stated in Texas Surface Water Quality Standards (30 TAC Chapter 307.10) for Segment No. 1201 are contact recreation, public water supply, high aquatic life use and 4.0 mg/L dissolved oxygen.

As requested by memorandum, water quality based effluent limitations are provided for this Superfund Site. Attachment 1 provides the effluent limitations necessary for the protection of aquatic life and human health. Regulations promulgated in Title 40 of the Code of Federal Regulations require technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, and/or on best professional judgment (BPJ) in the absence of guidelines. Attachment 2 provides technology based limitations for use at your discretion based upon 40 CFR §414 J – Direct Discharge Point Source That Do Not Use End-of-Pipe Biological Treatment.

Tres Koenings

June 22, 2010

Date

Received

JUN 25 2010

Superfund Section

ATTACHMENT 1

WATER QUALITY BASED EFFLUENT LIMITATIONS

Parameter	Daily Average	Daily Maximum	Sample Type	Frequency
Flow (MGD)	(Report)	(Report)	Meter	1/week (*1)
Benzene	2.4 mg/L	5.1 mg/L	Grab	1/week (*1)
Chloroform	29.4 mg/L	62.2 mg/L	Grab	1/week (*1)
1,2-dichloroethane	1.6 mg/L	3.5 mg/L	Grab	1/week (*1)
Trichloroethylene	13.9 mg/L	29.5 mg/L	Grab	1/week (*1)
Tetrachloroethylene	7.3 mg/L	15.5 mg/L	Grab	1/week (*1)
Vinyl Chloride	9.5 mg/L	20.0 mg/L	Grab	1/week (*1)
pH (standard units)	(Minimum 6.0)	(Maximum 9.0)	Grab	1/week (*1)

(*1) When discharge occurs.

CALCULATION OF WATER QUALITY BASED EFFLUENT LIMITATIONS:

HUMAN HEALTH						
CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS						
		SW Fish			Daily	Daily
		Only			Avg.	Max.
Parameter		(ug/L)	WLAh	LTAh	(ug/L)	(ug/L)
Benzene		70.8	1770.00	1646.10	2419.77	5119.37
Chloroform		861	21525.00	20018.25	29426.83	62256.76
1,2-Dichloroethane		49.3	1232.50	1146.23	1684.95	3564.76
Tetrachloroethylene		215	5375.00	4998.75	7348.16	15546.11
Trichloroethylene		408	10200.00	9486.00	13944.42	29501.46
Vinyl Chloride		277	6925.00	6440.25	9467.17	20029.18

ATTACHMENT 2

TECHNOLOGY BASED EFFLUENT LIMITATIONS

Parameter	Daily Average	Daily Maximum	Sample Type	Frequency	
Flow (MGD) (*1)	(Report)	(Report)	Meter	1/week (*2)	
Benzene (*1)	0.057 mg/L	0.134 mg/L	Grab	1/week (*2)	
Chloroform (*1)	0.111 mg/L	0.325 mg/L	Grab	1/week (*2)	
1,2-dichloroethane (*1)	0.18 mg/L	0.574 mg/L	Grab	1/week (*2)	
Tetrachloroethylene (*1)	0.052 mg/L	0.164 mg/L	Grab	1/week (*2)	
Trichloroethylene (*1)	0.026 mg/L	0.069 mg/L	Grab	1/week (*2)	
Vinyl Chloride (*1)	0.097 mg/L	0.172 mg/L	Grab	1/week (*2)	
pH (standard units) (*1)	(Minimum 6.0)	(Maximum 9.0)	Grab	1/week (*2)	

- (*1) These limitations are based upon 40 CFR §414 J Direct Discharge Point Source That Do Not Use End-of-Pipe Biological Treatment. Technology based limitations are more stringent than the water quality-based limitations and may be used if deemed appropriate by the TCEQ project manager. Flow and pH technology based limitations were the same as water quality-based limitations.
- (*2) When discharge occurs.

DEFINITIONS

- 1. Daily average flow the arithmetic average of all determinations of the daily discharge within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily discharge, the determination shall be the arithmetic average of all instantaneous measurements taken during that month.
- 2. Daily maximum flow the highest total flow for any 24-hour period in a calendar month.
- 3. Daily average concentration the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements. When four samples are not available in a calendar month, the arithmetic average of the four most recent measurements or the arithmetic average (weighted by flow) of all values taken during the month shall be used as the daily average concentration.
- 4. Daily maximum concentration the maximum concentration measured on a single day, by composite sample unless otherwise specified elsewhere in this permit, within a period of one calendar month.
- 5. Grab sample an individual sample collected in less than 15 minutes.

OTHER REQUIREMENTS

The following other requirements are recommended for this discharge:

SAMPLING AND LABORATORY TESTING METHODS

- 1. All sample collection shall be conducted according to recommendations found in the latest edition of "Standard Methods for the Examination of Water and Wastewater" (prepared and published jointly by the American Public Health Association, the American Waterworks Association, and the Water Pollution Control Federation), or the Environmental Protection Agency manual entitled "Methods for Chemical Analysis of Water and Wastes" (1979), or the Environmental Protection Agency manual entitled "Biological Field and Laboratory Methods for Methods for Measuring the Quality of Surface Waters and Effluents" (1973).
- 2. Sample containers, holding times, preservation methods and physical, chemical and microbiological and analyses of effluents shall meet the requirements specified in regulations published in the 40 Code of Federal Regulations Part 136 pursuant to the Federal Water Pollution Control Act, Chapter 304(g), and be conducted according to this federal regulation or the latest edition of "Standard Methods for the Examination of Water and Wastewater."
- Flow measurements, equipment, installation, and procedures shall conform to those prescribed in the "Water Measurement Manual," United States Department of the Interior Bureau of

Gulfco Marine Maintenance Superfund Site Page 5 6/22/10

Reclamation, Washington, D.C., or methods that are equivalent as approved by the executive director.

- 4. Laboratories shall routinely use and document intra laboratory quality control practices as recommended in the latest edition of the Environmental Protection Agency manual entitled "Handbook for Analytical Quality Control in Water and Wastewater Laboratories." These practices will include the use of internal quality control check samples.
- 5. The sampling and laboratory facilities, data, and records of quality control are subject to periodic inspection by commission personnel. Should the procedures specified in this section not be suitable to any particular situation, nonstandard sampling and testing techniques may be employed in accordance with the procedures outlined in 30 TAC Chapter 319.12 (relating to Alternative Sampling and Laboratory Testing Methods).
- 6. The discharge shall not contain floating solids, visible oil or visible foam in other than trace amounts.
- 7. All laboratory tests performed to demonstrate compliance with the requirements of this authorization must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

ATTACHMENT 2

TABLE 1

COMPARISON OF MAXIMUM SAMPLE CONCENTRATIONS TO EFFLUENT LIMITATIONS

Parameter	Maximum Sample	Water-Quality Based Effluent Limitations ²		Technology-Based Effluent Limitations ²	
<u> </u>	Concentration ¹	Daily Average	Daily Maximum	Daily Average	Daily Maximum
Benzene	0.015 mg/L	2.4 mg/L	5.1 mg/L	0.057 mg/L	0.134 mg/L
Chloroform	0.095 mg/L	29.4 mg/L	62.2 mg/L	0.111 mg/L	0.325 mg/L
1,2-dichloroethane	0.045 mg/L	1.6 mg/L	3.5 mg/L	0.18 mg/L	0.574 mg/L
Trichloroethylene	0.018 mg/L	13.9 mg/L	29.5 mg/L	0.026 mg/L	0.069 mg/L
Tetrachloroethylene	0.00627 J mg/L	7.3 mg/L	15.5 mg/L	0.052 mg/L	0.164 mg/L
Vinyl Chloride	<0.000765 mg/L	9.5 mg/L	20.0 mg/L	0.097 mg/L	0.172 mg/L
pH (Standard Units)	Not Measured	(Minimum 6.0)	(Maximum 9.0)	(Minimum 6.0)	(Maximum 9.0)

Notes:

¹Maximum concentration in accumulated water samples collected from containment area. See Table 2 for complete analytical results for these samples. ²From Attachment 1 of June 22, 2010 TCEQ Memorandum.

APPENDIX D WASTE DISPOSAL MANIFESTS



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Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

TRUCK# 92

DX3184243 SC PPW 10/26/2010

TRAILER # T332

Form Approved, OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 2. Page 1 of 3. Emergency Response Phone (800) 483-3718 4. Manifest Tracking Number 000115093 MWI UNIFORM HAZARDOUS 1. Generator ID Number TXP490350239 WASTE MANIFEST Generator's Site Address (if different than mailing address) 5. Generator's Name and Malling Address 906 Marlin Ave SAME Freeport, TX 77541 Generator's Phone: (713) 400-5651 U.S. EPA ID Number ALROSCO 7237 6. Transporter 1 Company Name Action Lesouces TXR000051508 nsporter 2 Company Name 2 (1 M 8. Designated Facility Name and Site Address Clean Harbors Deer Park, LLC 2027 Independence Parkway South TXD055141378 La Porte. TX 77571 (281) 930-2300 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 13. Waste Codes and Packing Group (if any)) НМ Туре Quantity Wt./Vol. RO. UN1993. WASTE FLAMMABLE LIQUIDS, N.O.S., (WATER). D001 D018 D022 GENERATOR 3. PG III. (BENZENE) 4800 D028 FNF5119H DO 1 CF FS OFFO 14. Special Handling instructions and Additional information 1.CH440890B ERG#128 TANKER T332 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment of Consent. I certify that the waste minimization elatement identified in 40 CFR 262,27(a) (if I am a large quantity generator) or (b) (if Lem a small quantity generator) is true. Offeror 8 Printed/Typed Signature Day 18 VO one Port of eptry/exit: Export from U.S. 눌 Transporter signature (for exports only): Date leaving U.S. 17. Transporter Acknowledgment of Receipt of Materials 18a. Discrepancy Indication Space Type Full Rejection Residue Partial Relection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c, Signature of Alternate Facility (or Generator) Month Day Year 19, Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) H040 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generally is shipping.

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DX3184243

SCPPW 10/26/2010

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SCPPW 10/26/2010

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1	UN	IFORM HAZARDOUS NASTE MANIFEST	1. Generator ID Number TXP4903	50239	2. Page 1 of 3. E	nergency Respons 800) 483	3718	4. Manifest	Tracking N	L 150	951	MWI
Н	5. G	enerators Name and Mailin	g Address		Gene	rator's Site Addres	s (If different i	han mailing addres	38)			
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Н	20. De:	signated Facility Owner or C	perator: Cartification of recei	pt of hazardous materials cove	red by the manifest exce	nt as poled in Item	188 N		· · ·			
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TRUCK # 92 332
TRAILER # T. 332

SCPPW 10/26/2010

Please print or type. (Form designed for use on elite (12-pitch) typewriter. Form Approved. OMB No. 2050-0039 2. Page 1 o UNIFORM HAZARDOUS (800) 483-3718 WASTE MANIFEST Generator's Site Address (if different than mailing address) Constant Coastal LP ling 906 Marlin Ave SAME Freeport, TX 77541 (713) 400-5651 Generat<u>or's Phone:</u> pany Nama 6. Transporter 1 C U.S. EPA ID Number TETTON 8. Designated Facility Name and Site Address Clean Harbors Deer Park, LLC 2027 Independence Parkway South TXD055141378 La Porte, TX 77571 (281) 930-2300 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12, Unii 13. Waste Codes and Packing Group (if any)) Wt./Vol. НМ No. Туре Quantity RO. UN1993. WASTE FLAMMABLE LIQUIDS. N.O.S., (WATER). D001 D018 D022 GENERATOR 3, PG III, (BENZENE) 5000 D028 FNF5119H 14. Special Handling Instructions and Additional Information 1_CH440890B ERG\$128 GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the ettached EPA Acknowledgment of Consent.

I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I gg) Export from M Import to U.S. ort of entry/exit: Date leaving U.S.: Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials orter 1 Printed/Typed Name Month 18. Discrepancy 18a. Discrepancy Indication Space Quantity ____Туре Residue Partial Rejection Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) H040 20. Designated Eacility Owner or Operator: Certification of receipt of hazerdous materials covered by the manifest except express in them 182 20. Design. EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

TROCK# 92 TRAILER# T3 46 DX3184243

SC PPW 10/26/2010

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TRUCK # 92 TRAILER# T32

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П	5. Generatore Name and Mail	ng Address	<u>-</u>		Senerator's Site Addre	ss (if different	than mailing addre	66)			
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	15. GENERATOR'S/OFFEROR	28 CERTIFICATION: 1 hereby declare that the									
	Exporter, I certify that the co	ded, and are in all respects in proper condition ontents of this consignment conform to the term mization statement identified in 40 CFR 262.27		Acknowledgenity general	gment of Consent tor) or (b) (if Lawra sm			f export ship	oment and I a	m the Prima	iry
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TRUCK#92 TRAILER # T321

SCPPW 10/26/2010 Please print or type. (form designed for use on elite (12-pitch) typewriter.) Form Approved, OMB No. 2050-0039 UNFORM HAZARDOUS 1. Generator ID Number TX P4 9 0 4. Manifest Tracking Number 5079 MWI 2. Page 1 of 3. Emergency Response Phone TXP490350239 (800) 483-3718 Generator's Site Address (if different than mailing address) enerator's Name and Mailing Address LDL Coastal LP 906 Marlin Ave Freeport, TX 77541 SAME (712) 400-5651 8. Cesignated Facility Nams and Site Address
Clean Harbors Deer Park, LLC
2027 Independence Parkway South TXD055141378 La Porte: TX 77571 (281) 930-2300 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) 10. Container 13. Waste Codes No. Тура Quantity Wt./Vol RO. #N1993. WASTE FLAMMABLE LIQUIDS. N.O.S. EST. D010 D001 D01 GENERATOR (PETROLEUM OIL), 3, PG III, (BENZENE, TOC > 10%) 5000 14. Special Handling Instructions and Additional Information > CH4KOBOB Lewword M ERG#128 GENERATOR S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and belead/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. l certify that the waste minimization statement identified in 40 CFR 262.27(a) (if i am a large quantity generator) or (b) وموسلوا معناه a small quantity generator) is true. Day Signature. 10/1 Export from U.S Port of entry/exit: Transporter signature (for exports only): Date leaving U.S. 17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed Typed Name TR ANSPORT 0/10 18. Discrepancy Full Rejection Residue Partial Rejection U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day 19. Hazardous Waştı Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) H040

8700-22 (Rev. 3-05) Previous editions are obsolete.

20 Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

TRUCK #92 SCPPW 10/26/2010 TRAILER # 735/

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved, OMB No. 2050-0039 4. Manifest Tracking Number 000115101 MWI UNIFORM HAZARDOUS WASTE MAN FEST 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone (800) 483-3711 TXP490350239 (800) 483-3718 5. Cangrators Name and Mailing Address
906 Markin Ave
Freeport, TX 77541 Generator's Site Address (if different then meiling address) SAME (713) 400-5651 6. Transporter 1 Qd 8. Designated Facility Name and Site Address
Clean Harbors Deer Park, LLC
2027 Independence Parkway South
La Porte: TX 77571 TXD055141378 (281) 930-2300 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) 10. Containers 13. Waste Codes Туре Quantity Wt./Vol. RO. WN1993. WASTE FLAMMABLE LIQUIDS. N.O.S.. (WATER). 3, PG III, (BENZENE) D001 D018 D022 6 D028 FNF5119H 14. Special Handling Instructions and Additional Information ERG\$128 TRAiler # 512 EN GENERATOR \$/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, led/placarded, and are in ail respects in proper condition for transport according to applicable international and national governmental regulations. If export ship y that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. profits minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Signature Export from U.S Port of entry/exit: ate leaving U.S. 17. Transporter Acknowledgment of Receipt of Materials 0/10 Тура Partial Rejection Full Rejection Manifest Réference Number: U.S. EPA ID Number E 18b. Allemate Facility (or Generator) FACIL Facility's Phone: (TED 18c, Signature of Alternate Facility (or Generator) Month Day 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) H040 apt as rood in item 18a 20, Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the mani-EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

DY3199345

TRUCK # 42

TRAILER# 1332 SCPPW 10/26/2010 Form Approved, OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 2. Page 1 of 3. Emergency Response Phone **1** (800) 483-3718 1. Generator ID Numbe UNIFORM HAZARDOUS 000115103MWI TXP490350239 WASTE MANIFEST Generator's Site Address (if different than mailing address) 6. Generator's Name and Malling Address 906 Martin Ave SAME 77541 20076 Prione: (712)400 (713)400-5651 ESOURCES Designated Fadility Name and Site Address
Clean Harbors Deer Park, LLC
2027 Independence Parkway South
La Porte, TX 77571 U.S. EPA ID Number TXD055141378 (281) 930-2300 Facility's Phone: ! 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) 10. Containers 11. Total 12. Unit 13. Waste Codes Quantity No. Турв НМ RO, UN1993. WASTE FLAMMABLE LIQUIDS, N.O.S., (WATER). D001 D018 D022 GENERATOR 3, PG III, (BENZENE) D028 FNF5119H 14. Special Handling instructions and Additional information 1. CH440890B ERG\$128 GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and liabeled/placerded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I partify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment of Consent. i certify that the waste minimization statement identified in 40 CFR 262.27(e) (if I am a large quantity generator) or (b) (if I am a mail quantity generator) is true.

Generator of Officiary Educator ped Name Export from U.S. Port of entry/exil Transporter sigh ture (for exports only): Date leaving 17 Transporter Acknowledgment of Receipt of Materials porter 1 Printed/Typed Name 12 10 0 18a. Discrepancy Indication Space Quantity Туре L__ Residue Full Rejection → Partial Rejection Manifest Reference Number: 18b. Alternate (Facility (or Generator) U.S. EPA ID Number Facility's Phone 18c. Signature of Alternate Facility (or Generator) Month Day 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Pasignated Facility Onner or Operator: Certification of receipt of hazardous materials covered by the manifest except as includin Item 18a

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

DY 3/84443 DY 3/993/5 TRUCK# 92

DX3184414 SCPPW 10/26/2010 TRAILER #T 5/9

Form Approved. OMB No. 205

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SCPPW 10/26/2010 TRAILER

Please print or type. (Form designed for use on elite (12-pitch) typewriter; UNIFORM HAZARDOUS 1. Generator ID Number 2. Page 1 of | 3. Emergency Response Phone TXP490350239 (800) 483-3718 00011 **WASTE MANIFEST** Generalor's Name and Mailing Address Generator's Site Address (if different then mailing address) 906 Marlin Ave Freeport, TX 77541 SAME (713)400-5651 6. Transported 1 Company Name 2*00*000*223* 7. Transporter 2 Company Name 8. Designated Facility Name and Site Clean Harbors Deer Park, LLC TXD055141378 2027 Independence Parkway South La Porte. TX 77571 (281) 930-2300 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 12. Unit 11. Total and Packing Group (if any)) нм No. Туре Quantity Wt./Vol. RO. UN1993. WASTE FLAMMABLE LIQUIDS. N.O.S. -D010 D018 D001 (PETROLEUM, OIL), 3, PG III, (BENZENE, TOC > 10%) 00 D019 FNF4219H CR OFFC 14. Special Handling Instructions and Additional Information
1 - 2:14-10-909B

CH 41-0870B

ERG#128 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and tabeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Signature Dav Year 12/15 rt of entry/exit: ate leaving U.S. Transporter algnature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials 18. Discrepance 18a. Discrepancy Indication Space Туре Partial Rejection Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month . Dav Year 19. Hazardous Waste Report Management Melhod Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) H040 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name 100 K EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED) Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

Ple	ase print or type. (Form designed for use on elite (12-pitch) typewriter.)	3. Emergency Response	Phone	4. ManHest T		umber	
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	8. Designated Facility Name and Sile Address DEER PARK LLC Clean HARRONS DEER PARK LLC 2027 Independence Pking 5,						
	Facility's Phone: PETT PARISE, TX & MPONT	775	7/	1700	755	-1413	78
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FOR	OFFI	CE USE	ONLY	
Customer Ac	• 1		7	
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Customer Acc	:. No.
Ticket No.	ļ

GENERATOR

WMI 733174

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LDL Coastal I	LP (Gulfco)	·	Generating Location	906 Marlin	Avenue	
Address <u>c/o Columbia</u>	Environmental	Services, Inc.		Freeport, TX	C 7754	
13222 Reeves	on Rd, Housto	n, TX 77039	State Gen, ID No	TXIP490350	239	
Phone No. <u>713 968 49</u>	15		Gen. US EPA ID No.	-XXX12	_	
WASTE CODE	PROFILE NUMBER	WASTE	DESCRIPTION		QUANTITY	UNITS
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ransporter's Name	ction Re	Sociaces	Phono No. 2 f	81 930 ·	4848	
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Pasaseva	7X	77507	Vehicle No. 92			
hereby certify that the above	w isteri metali e	as soked up at the Generator sit		lhout lockdent	le disposer/acility liste	d below.
1/-17-10	//4		11-17-10	• ///	1 5	
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		DISPOSA	AL FACILITY			
		<u> </u>	• •	•		•
	Coastel Plains		Phone No281-	388-1708	· · ·	
	Hwy 6, Alvin	TX 7751			•	
Permit No. 1721A		A.A	Time			
hereby certify that the above	Λ	as been accepted and that inform	ation presented on this docume	ent is true and acc	turate.	Miles.
		pandro	11.17.200	61	SIGNATURE	
	NAME.	(PHINT)	DATE		SHU IANK	

SCPPW 10/26/2010

TRUCK #92 TRAILER # T332

Please print or type, (Form designed for use on elite (12-pitch) typewriter. Form Approved. OMB No. 2050-0039 UNIFORM HAZARDOUS 1. Generator ID Number TXP490350239 4. Manifest Tracking Number 000115083 MWI 3. Emergency Response Phone (800) 483-3718 WASTE MANIFEST 5. Generators dame and Meiling Address 906 Martin Ave Freeport, TX 77541 Generator's Site Address (if different than mailing address) SAME (713)400-5651 6. Transporter 1 Company Name DIRCES 8. Designated Facility Name and Sile Address
Clean Harbors Deer Park, LLC 2027 Independence Parkway South La Porte TX 77571 TXD055141378 (281) 930-2300 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) 10. Containers 11. Total 12. Unit 13. Waste Codes No. Type Quantity Wt./Vol. RO. UN1993. WASTE FLAMMABLE LIQUIDS. N.O.S., D001 D010 D018 GENERATOR (PETROLEUM OIL), 3, PG III, (BENZENE, TOC > 10%) D019 FNF4219H Special Handling Instructions and Additional Information
1.CH440909B ERG#128 33Z EX GENERATOR'S PFFEROR'S CERTIFICATION: 1 hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeted/placerded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (If I am a large quantity generator) or (b) (If I am a small mantity generator) is true Signature feror's Printed/Typed Name Day Export from U.S. entry/exit: Transporter signature (for exports only): eving U.S. 17. Transporter Acknowledgment of Receipt of Materials porter 1 Printed/Typed 29/10 TRTUR 18. Discrepancy 18a. Discrepancy Indication Space Туре Residue Full Rejection Quantity Partial Rejection Manifest Reference Number: U.S. EPA ID Number FACILITY 18b. Alternate Facility (or Generator) Facility's Phone: Day 18c. Signature of Alternate Facility (or Generator) Month Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) H040 ated Facility Other or Operator; Certification of receipt of hezardous materials covered by the manifest except as noted in Item 18a 20. Desig

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

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SCPPW 10/26/2010 TRALER # T5/4

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SCPPW 10/26/2010 Form Approved. OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 2. Page 1 of | 3. Emergency Response Phone 1, Generator ID Number UNIFORM HAZARDOUS 000115 TXP490350239 (800) 483-3718 WASTE MANIFEST Generator's Name and Mailing Addre LDL Coastal LP 906 Marlin Ave Freeport, TX 77541 Generator's Site Address (if different than mailing address) ing Address SAME enerator's Phone: (713) 400-5651 6. Transporter 1 Company Name Glean Harbors Environmental Services in enon lesaines 2008 8. Designated Facility Name and Site Address Clean Harbors Deer Park, LLC 2027 Independence Parkway South TXD055141378 La Porte. TX 77571 Facility's Phone: (281) 930-2300 10. Containars 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 13. Waste Codes нм and Packing Group (if any)) Quantity Wt,/Vol. Type NA3077. HAZARDOUS WASTE. SOLID. N.O.S.. (SOIL & RUST D018 D022 D028 GENERATOR SCALE), 9, PG III, (BENZENE, CHLOROFORM) FNF8319H D039 OFFC 14. Special Handling Instructions and Additional Information 1.CH440902B ERG#171 OX GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. #ed/Typed Name 64 Export from U. Port of entry/exit: Date leaving U.S. Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials sporter 1 Printed/Typed Name 121141 Month 18. Dis repancy 18a, Discrepancy Indication Space Туре Quantity Residue Partial Rejection Full Rejection Manifest Reference Number: U.S. EPA ID Number 18b. Alternate Facility (or Generator) Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) H040 20. Designated Facility Owper or Operator: Certification of receipt of hezardous meterials covered by the manifest except as noted in item 18a Printed/Typed Name Signature

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRUCK#92 TRAILER # 747

SCPPW 10/26/2010 DX3184513 Please print or type. (Form designed for use on elite (12-pltch) typewriter.) Form Approved. OMB No. 2050-0039 2. Page 1 of | 3. Emergency Response Phone 1. Generator ID Number UNIFORM HAZARDOUS 001TXP490350239 1 (800) 483-3718 **WASTE MANIFEST** Generator's Site Address (if different than mailing address) 5. Generator's Name and Malling Address LDL Coastal LP 906 Marlin Ave Freeport, TX 77541 SAME Generator's Phone: (713) 400-5651 6. Transporter 1 Company Name Number AL ROOD 000723 Glean Harbors Environ enon MAD033322250 . Transporter 2 Company Name Clean Harbors Deer Park, LLC TXD055141378 2027 Independence Parkway South La Porte. TX 77571 Facility's Phone: (2 (281) 930-2300 9b. U.S. DOT Description (including Proper Shipping Name, Hezard Class, ID Number, 10. Containers 11. Total 12, Unit 13. Waste Codes and Packing Group (if any)) HM Quantity Wt./Vol No. Туре NA3077. HAZARDOUS WASTE, SOLID, N.O.S., (SOIL & RUST D022 D028 D018 GENERATOR SCALE), 9, PG III, (BENZENE, CHLOROFORM) X D039 FNF8319H CK 78 OFFC 14. Special Handling Instructions and Additional information 1.CH440902B ERG#171 #NZ348( GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a all quantity generator) is true. Offeror's Printed/Typed Name Export from U.S. t of entry/exit: ___i import to U.S Date leaving U.S.: Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signatur Year 18 Discrepancy Турв 18a. Discrepancy indication Space Quantity Residue Partial Rejection Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: AED 18c. Signature of Alternate Facility (or Generator) Month Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) H040 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a rinted/Typed Nan EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACULTY TO DESTINATION STATE (IF REQUIRED)

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TRUCK#92 TRAILCRH 1747

SC PPW 10/26/2010 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039 UNIFORM HAZARDOUS 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 000115066MWI (800) 483-3718 TXP490350239 **WASTE MANIFEST** . Generator's Name and Mailing Address LDL Coastal LP Generator's Site Address (if different than mailing address) 906 Marlin Ave SAME Freeport, TX 77541 Generator's Phone: (713) 400-5651 6. Transporter 1 Company Name Clean Harbors Environmental Services Inc 7. Transporter 2 Company 8. Designated Facility Name and Site Address U.S. EPA ID Number Clean Harbors Deer Park, LLC TXD055141378 2027 Independence Parkway South La Porte. TX 77571 (281) 930-2300 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) НМ No. Туре Quantity Wt.Noi. NA3077. HAZARDOUS WASTE. SOLID. N.O.S., (SOIL & RUST D018 D022 D028 GENERATOR SCALE), 9, PG III, (BENZENE, CHLOROFORM) X CH DO39 FNF83L9H CF OFFC Special Handling Instructions and Additional Information

1.CH440902B ERG ERG#171 RBL TS GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Signature Day Generator's/Offeror's Printed/Typed Nam V5 Export from U.S. Port of entry/exit: Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials porter 1 Printed/Typed Name 15 10 18. Discrepancy 18s. Discrepancy Indication Space Туре Full Rejection Partial Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number FACIL Facility's Phone: 18c. Signature of Alternate Facility (or Generator) DESIGNATED Month Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) H040 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Month OΩ editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED) EPA Form 8700-22 (Rev. 3-05) Previous

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Form Approved. OMB No. 2050-0039

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DESIGNATED FACILATY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pltch) typewriter.) Form Approved, OMB No. 2050-0039 4. Manifest Tracking Number Emergency Response Phone (800) 483-3718 UNIFORM HAZARDOUS 2. Page 1 of 1. Generator ID Number TXP490350239 00010 WASTE MANIFEST Generator's Site Address (if different than mailing address) 5. Generators Name and Malling Address 906 Marlin Ave Freeport, TX 77541 SAME (713) 400-5651 Company Name 10000007237 8. Designated Facility Name and Site Addres Clean Harbors Deer Park, LLC TXD055141378 2027 Independence Parkway South La Porte. TX 77571 (281) 930-2300 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 13. Waste Codes and Packing Group (if eny)) No. Туре Quantity Wt./Vol. NA3077. HAZARDOUS WASTE, SOLID, N.O.S., (SOIL & RUST D018 D022 D028 SCALE), 9, PG III, (BENZENE, CHLOROFORM) 2M 15 X Oo 1 D039 FNF8319H CR OFFO 14. Special Handling Instructions and Additional Information 1.CH440902B ERG#171 GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked sind labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.

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Form Approved. OMB No. 2050-0039

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		Designated Facility Owner or C	perator: Certifica	tion of receipt of hazard	lous materials covered	by the manifest		nded in item	189	1/10		Mont	h day)	Year
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		La Porte. TX 775 Illy's Phone:	71 (281) 930-23	300									
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	J i	GENERATOR'S/OFFEROR marked and labeled/placero	ded, and are in all respe	cts in proper conditio	n for transport accor	rding to applicable	international and nati						
	]	Exporter, I certify that the co	ontents of this consignm	nent conform to the te	rms of the attached	EPA Acknowledgm	ent of Consent.	•	•				·
	Gene	orator's Offered Printed/Typ	ed Name	a		Signatur		$ \ge $			Mon	th Day	Year
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DX 327409/ DX 327409/ SCPPW 10/26/2010

Form Approved, OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pltch) typewriter.) (800) 483-3718 000107568MW UNIFORM HAZARDOUS 1. Generator ID Number 350239 WASTE MANIFEST Generator's Site Address (if different than mailing address) 5. Gentloc Name and Mailing Address 906 Marlin Ave Freeport, TX 77541 SAME (713)400-5661 enerator's Phone: 6. Transporter 1 Company Name
Class Margary Environmental Services in MADOS U.S. EPAID Number Clean Harbors Deer Park, LLC TXD055141378 2027 Independence Parkway South La Porte: TX 77571 12811930-2300 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10, Containers 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) Quantity Wt./Vol No. Туре NA3077. HAZARDOUS WASTE. SOLID. N.O.S., (SOIL & RUST 3 D021 D022 D018 GENERATOR SCALE), 9, PG III, (BENZENE, CHLOROFORM) 20 D039 FNF8319H 14. Special Handling Instructions and Additional Information 1.CH440902B ERG#171 NBR 25043 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consign ment conform to the terms of the attached EPAAcknowledgment of Cons 1 certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true, Day 16. International Ship hents Port of entry/exit: Date leaving U.S.: Transporter signature (for exports only): 17, Transporter Acknowledgment of Receipt of Material Day 0/103111 18a. Discrepancy Indication Space Type Quantity Residue Partial Relection Full Relection Manifest Reference Number: FACILITY 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone 旦 18c. Signature of Alternate Facility (or Generator) Month Day 10. Hazardous Wasle Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling ayarams) 20. Designated Facility Owner or Operator: Certification of receipt of hezardous materials covered by the manifest except as noted in item Hall DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED) Printed/Typed Name EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete with for and will accept the waste the generator is shipping.

DX 327409/

SCPPW 10/26/2010 Form Approved, OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 1. Manifest Tracking Number 000107567 MWI 2. Page 1 of | 3. Emergency Response Phone UNIFORM HAZARDOUS 1. Generator ID Number (800) 483-3718 1 TXP490350239 WASTE MANIFEST Generator's Site Address (if different than mailing address) Generator's Name and Malling Address LDL Coastal LP SAME 906 Marlin Ave Freeport, TX 77541 Generator's Phone: (713) 400-5651 8. Transporter 1 Company Name Gleen Harbors-Environ ransporter 2 Company Name Clean Harbors Deer Park, LLC TXD055141378 2027 Independence Parkway South La Porte. TX 77571 (281) 930-2300 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 12. Unit 11. Total 13. Waste Godes and Packing Group (if any)) No. Турв NA3077. HAZARDOUS WASTE, SOLID. N.O.S., (SOIL & RUST D018 D022 D029 SCALE), 9, PG III, (BENZENE, CHLOROFORM) DO39 FNF8319H GENER 14. Special Handling Instructions and Additional Information ERG#171 1_CH440902B 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a Signature Export from U.S. of entry/exit: Transporter signature (for exports only): aving U.S.: 17. Transporter Acknowledgment of Receipt of Materials 0/ 10411 8. Discrepancy 18a. Discrepancy Indication Space Quantity Туре Partial Rejection Full Rejection Residue Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposel, and recycling systems) H040 20. Designated Facility Owner or Operator: Certification of receipt of hezardous materials covered by the manifest except as noted in item 18a Printed/Typed Name 121

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsorbed.

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Clean Harbers has the appropriate permits for and will accept the waste the generator is shipping.

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		Exporter, I certify that the co I certify that the waste minin	ntents of this consi	gnment conform to the	e terms of the attach	ed EPA Acknowle	dgment of Co	nsent			, ii export siii	onicini bina i s	9	'∥ ∣
	Gene	retor's Offerer's Printed/Type	MARC	2		Signa	ature					Mon		ear/
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RAN	Trans	porter 2 Printed/Typed Name	$\frac{1}{2}$	Co/1	40lh	Signa 	iture	10	nece	121	$\mathcal{O}_{0}$	Mon		ear
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	100. L	Discrepancy indication opaci	' L Quanti	ity	<u>—</u> Турв		LJ Rea	sidue		Partial Reju	ection	L	i Full Reject	ion
- <u>II</u>	18b. A	Alternate Facility (or Generate	or)			<u> </u>	Manifest	Reference	e Number:	U.S. EPA ID N	umber	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>		++
FACIL		y's Phone:								1				
DESIGNATED FACILITY	18c. S	Signature of Alternate Facility	(or Generator)									Mon	th Day	Year
ESIGN		azardous Waste Report Man	agement Method C	odes (l.e., codes for	hazardous waste trea	itment, dísposal, a	and recycling	systems)		14.				
		H040		···									·	
1 1		esignated Facility Owner or C d/Typed Name	perator: Certification	on of receipt of hazar	dous materials cover	ed by the manifes Signa		<u>6</u> .	4 -	$\sqrt{\mathcal{O}}$		Mont	h Day	ear
₽A	Form	8700-22 (Rev. 3-05) Pre	Wigh G	re obsolete.		DES	SIGNATI	D FA	,	D DESTINA	ATION S	TATE (	F BEOU	IBED)
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ease print or type. (Form designed for use on ente (12-pitch) typewher.)	ROTTUR TRONMENTA	ī. •				For	m Approved. U	MB No. 2000-00
UNIFORM HAZARDOUS WASTE MANIFEST TXP490350239 / XXX12	2. Page 1 of	3. Emer	gency Respons 2-329-120	00		144	^{lumber} 5391	GBF
5. Generator's Name and Mailing Address LDL Coastal LP / Guifco Marine Tank Demo 906 Marlin Avenue, Freeport, TX 77541	,	Generato	or's Site Addres	s (If different i	han malling addres	ss)		
Generator's Phone: ATTN: ' 6. Transporter 1 Company Name					U,S. EPA ID N	Number	· <del></del>	
Effective Environmental, Inc.	Ph#: 7		2-6100 X <u>- 87158/A</u>	D.LL 426	1	TXR	0000518	508
7. Transporter 2 Company Name	·		A-MI 14M2	1141 <u>-190</u>	U.S. EPAID N	lumber 3	9317	C _C S
8. Designated Facility Name and Site Address Clean Harbors Deer Park, L.P.	<del>:</del>		•	<del></del>	U.S. EPA ID N	lumber	<u> </u>	<del></del>
2027 Battleoround Road LaPorte, TX 77571 Facilitys Phone: 281-930-2300		Stat	te ID#: 500	<b>89</b>	, 7	TXD0	<b>661413</b> 7	78
9a. 9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number,		<u> </u>	10, Conta	iners	11. Total	12, Unit	13. Was	ste Codes
HM and Packing Group (if any))			No.	Туре	Quantity	Wt./Vol.		
RQ, Hazardous waste, solid, n.o.s. (D018, benzene), 9, NA30	)77, PG III	I, ERG	00/	CM	32906	Р	D018 D02	8319H 2 D020 D039 040
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4.				<del> </del>			<del></del>	
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14. Special Handling Instructions and Additional Information 01: Hazardous solids BULK (PF:CH440902B)	<del></del>		<del></del>		<u></u>		<u> </u>	
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this or marked and labeled/placarded, and are in all respects in proper condition for transport according the contents of this consignment conform to the terms of the attached it certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large Generator's Offeror's Printed/Typed Name	rding to applice EPA Acknowle	ible intern dament o	iational and nati of Consent.	scribed above onal governm	iental regulations. I	ping name	and are classifie	d. packaned.
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16. International Shipments Import to U.S.  Transporter signature (for exports only):	Export from U.S	8.	Port of en					
17. Transporter Acknowledgment of Receipt of Materials								
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18. Discrepancy				<del>/</del>				221 1
18a. Discrepancy Indication Space Quantity Type			Residue		Partial Rejec	tlon	F	ull Rejection
18b. Alternate Facility (or Generator)	····	Man	fest Reference	Number:	U.S. EPA ID Nui	mber		
Facility's Phone:					1			
18c. Signature of Alternate Facility (or Generator)				***	_L		Month	Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatments)	ent, disposal, a	nd recycl	Ing systems)					
01: H040	3.				4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered Printed/Typed Name	by the manifest Signat		s noted in Item	18a	0,		Month	Day Year
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				o Marine Tank De	mo			CONORDIO	0 0110 / 100 / 000	(ii amoroni i	ian maining acci	,			
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F	ree ener	ort, TX 778 ntor's Phone:	541 Δ	TTN:		······································									<u> </u>
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	iM	and Packing G					·		No.	Туре	Quantity	Wt./Vol.	13, V	Vaste Code	38
æ		i, RO, Hazar	dous v	vaste, solid, n.o.s	(D018 benze	ene) . 9 . NAS	3077. PG II	I. ERG		1	_	Y	FN	IF8319	HE
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UNIFORM HAZARDOUS 1. Generator ID Number	2. Page 1 of 3. Em	•		4. Manifest			5 GB
WASTE MANIFEST TXP490350239 / XXX12  5. Generator's Name and Malling Address		2-329-120		han mailing addre		<u>539</u>	<b>5</b> 45
LDL Coastal LP / Guifco Marine Tank Demo	Concin	no, o ono ridurou	in autorome.	alon mannig adoro			
906 Mariin Avenue,		,					
Freeport. TX 77541 Generator's Phone:							
6. Transporter 1 Company Name	Ph#: 713-6	72-6100		U.S. EPA ID			
Effective Environmental, Inc. 7. Transporter 2 Company Alympy	State ID#:	TX- <b>8</b> 7158/A	R-H-136	U.S. EPA ID I		00005	
The insporter 2 configuration of the law					200	B93 ?	22250
8. Designated Facility Name and Site Address		<del></del>	<del>, , , , , , , , , , , , , , , , , , , </del>	U.S. EPA ID			<del> </del>
Clean Harbors Deer Park. L.P. 2027 Battleground Road							
LaPorte. TX 77571	St	ate ID#: 500	88	1	TXD0	<b>6</b> 5141	378
Facility's Phone: 281-930-2300						<del></del>	
9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Contai	ners Type	11. Total Quantity	12, Unit Wt./Vol.	13.	Weste Codes
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#### Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved, OMB No. 2050-0039 1. Generator ID Number 4. Manifest Tracking Number **UNIFORM HAZARDOUS** 3. Emergency Response 0014453 GBF **WASTE MANIFEST** TXP490350239 / XXX12 972-329-1200 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) LDL Coastal LP / Gulfco Marine Tank Demo 906 Martin Avenue, Freeport, TX 77541 Generator's Phone: ATTN: * 6. Transporter 1 Company Name U.S. EPA ID Number Ph#: 281-452-1735 Specialized Waste Systems, Inc State IO#: 40514 TXD980870257 sporter 2 Company Name U.S. EPA ID Numb 8. Designated Facility Name and Site Address U.S. EPA ID Number Clean Harbors Deer Park. L.P. 2027 Battleoround Road State ID#: 50089 TXD056141378 LaPorte, TX 77571 Facility's Phone: 9b, U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 9a. 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) НМ Quantity Wt./Vol. Type FNF8319H RQ, Hazardous waste, solid, n.o.s. (D018, benzene) , 9 , NA3077, PG III, ERG GENERATOR D018 D022 D028 D039 CM 171. D040 14. Special Handling Instructions and Additional Information 01: Hezardous solids BULK (PF:CH440902B) GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, psckaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. rator g Offeror's Printed/Typed Name Day Year Export from U.S. _l Import to U.S. Port of entry/exit: Transporter signature (for exports only): Oate leaving U.S. 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Month Day RMENTA OSE ter 2 Printe 18. Discrepancy 18a. Discrepancy Indication Space Птуре ___ Residue ___ Full Rejection Quantity Partial Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone:

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# APPENDIX E ASBESTOS INSPECTION REPORT AND RELATED INFORMATION

# **Asbestos Inspection**

Tank Farm 906 Marlin Avenue Freeport Brazoria County, Texas 77541



Mr. Tony Maag Columbia Environmental Services, Inc. 13222 Reeveston Road Houston, Texas 77039 713-868-4845 ext 5651 email tmaag@columbiaenviro.com

RE: 20110073 Dear Mr. Maag:

Phase Engineering, Inc. (Texas Department of State Health Services [TDSHS] license # 10-0224) has conducted an asbestos inspection for demolition purposes of the suspect materials in the tank farm area located at 606 Marlin Avenue, Freeport, Brazoria County, Texas 77541.

- Date of Inspection: November 16, 2010.
- ❖ Location Contact: Mr. Tony Maag, Telephone 281-740-6607.
- Site maps were not provided by client.
- Known areas not available for access: None (0).
- Person(s) Conducting Inspection & Texas Department of State Health Services (TDSHS) License Number: Neal Barnes TDSHS # 105626.
- Total number of samples taken: Seven (7).
- Number of samples analyzed: Seven (7).
- Number of samples containing more than 1% asbestos: One (1).
- Number of samples containing asbestos but less than 1%: None (0).
- ❖ Laboratories Conducting Analysis and Method: Micro Analytical Services. (TDSHS License number # 30-0304), Methods – Interim 40 CFR Part 763 Appendix E to Subpart E Environmental Protection Agency (EPA), Improved EPA 600/R-93/116. 94

The potential Asbestos Containing Building Material (ACBM) samples collected (potential ACBMs that tested positive for asbestos or are assumed positive are shaded in yellow), their descriptions, and their locations are summarized in the following table:

Sample Number	Type / Condition	Well# / Location	Friable/Percent Asbestos
1-1-I-1	Loose Insulation – White Fibrous Insulation / Damaged	Northeast Metal Flanked Catch Area	Yes / None Detected
2-2-G-1	Metal Gasket Material – Rusted Non-fibrous Metal / Damaged	Southeast Tank in Northeast Berm Area	No / None Detected
3-3-G-1	Gasket Material – Black Fibrous Gasket + Beige Paint / Good	Piping in Northeast Berm Area	No / None Detected
4-4-H-1	Hose Material – Black Fibrous Hose / Good	Northeast Berm Area	No / None Detected
5-5-G-1	Gasket Material – Gray Fibrous Transite / Good	Southeast AST In Southeast Berm Area	Yes / 4% Chrysotile
6-6-G-1	Gasket Material – Green Fibrous Gasket Material / Good	Third AST from the Northwest End of Southeast Berm Area	Yes / None Detected
7-7-I-1	Tank Insulation – Dark Non-fibrous Mastic / Damaged	Third AST from the Northwest End of Southeast Berm Area	Yes / None Detected

See lab results and sample photographs attached to this letter. Under EPA 600/R-93/116; Interim 40 CFR Part 763 Appendix E to Subpart E it is not necessary to separate layers for point counting if the individual components are proportioned equally.

The inspection performed by Phase Engineering, Inc. was a suspect asbestos containing materials (ACMs) inspection for demolition purposes of the suspect materials in the tank farm area located at 606 Marlin Avenue, Freeport, Brazoria County, Texas 77541 following the National Emission Standards for Hazardous Air Pollutants (Title 40 CFR, Part 61). The inspector was provided no historical documentation of original construction or renovations of the buildings. No previous asbestos inspection reports or abatement reports were provided to the inspector. **This inspection is not intended to comply with AHERA 40 CFR 763.** All ACMs found and their homogeneous areas are assumed to be asbestos containing until a full asbestos inspection has been conducted.

#### Site Specific Details:

- The sampling protocol followed for this inspection was intended for demolition purposes of the suspect materials in the tank farm area located at 606 Marlin Avenue, Freeport, Brazoria County, Texas 77541.
- The specific square footage of each homogeneous suspect ACM area is not included as a part of this limited asbestos inspection.

Although Phase Engineering, Inc. uses trained and licensed inspectors in attempting to locate and identify materials potentially containing asbestos, Phase Engineering, Inc. does not warrant that all materials containing asbestos have been identified. It is possible that there are materials containing asbestos that were not found because they were not visible or accessible to the inspector, or for various other reasons, were not sampled. Moreover, it is possible that the actual quantities of materials will differ from the quantities of materials estimated during this survey.

Samples taken are categorized as either friable or non-friable. The term friable refers to the ease with which the material can be crumbled or made to produce dust using hand pressure alone. For example, ceiling tiles are generally considered friable, while floor tiles are generally considered non friable. Sheet rock wall materials are considered friable when damaged and non-friable when intact. The condition of the materials sampled is also categorized as good, damaged or significantly damaged.

A material is considered to be an ACM if it is composed of more than 1% asbestiform components.

#### Findings:

The results found during the asbestos inspection indicated one suspect ACMs sampled contained asbestos above 1%. The materials determined or assumed to be ACBMs are summarized in the following table:

TYPE OF MATERIAL	APPROXIMATE LOCATION OF ACBM	FRIABLE / NON-FRIABLE - CONDITION
Gray Valve Gasket	Southeast AST In Southeast Berm Area an All Gray Gaskets	Friable – Good

No other suspect ACMs analyzed were found to contain asbestos of the suspect materials in the tank farm area located at 606 Marlin Avenue, Freeport, Brazoria County, Texas 77541

#### Recommendations:

It is recommended that any ACMs or assumed ACMs, that will be disturbed, be removed by a licensed abatement contractor and if applicable, a licensed asbestos consultant. The TDSHS Demolition/Renovation Notification form can be used to meet the requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Subpart M (NESHAP). These regulations require that written notification be submitted before beginning renovation projects that include the disturbance of any asbestos-containing material in a facility. A notification form is required before the demolition of a building or facility, even when no asbestos is present.

This form must be used to fulfill these requirements. Please call either 512-834-6610 or 1-800-572-5548 (within Texas), or your local regional office for assistance in completing this form.

During renovation or demolition activities, care should be exercised in dealing with all materials even those shown to be non-asbestos containing (this would include materials technically considered as non-asbestos containing because they are below the one percent limit). If these non-asbestos materials are to be disturbed work practices should be used that will limit exposure to dust and debris. Contractors performing this work should conform to OSHA regulations outlined in 29 CFR 1926.55 (exposure limits can be found in 29 CFR 1910.1000 Table Z-3).

In the event of future renovation and or demolition, further sampling may be required of suspect asbestos containing materials prior to these activities to satisfy the Environmental Protection Agency (EPA), Occupational Safety and Health Administration (OSHA), and Texas Department of State Health Services (TDSHS) rules and regulations at that time. If suspect asbestos containing building materials (not noted during this inspection) should be found during any renovation or demolition, these materials should be sampled for asbestos and handled appropriately following all local, state and federal rules and regulations at that time.

## If improper renovation or demolition occurs the owner is subject to a \$10,000 a day fine, enforced by the Texas Department of State Health Services (TDSHS).

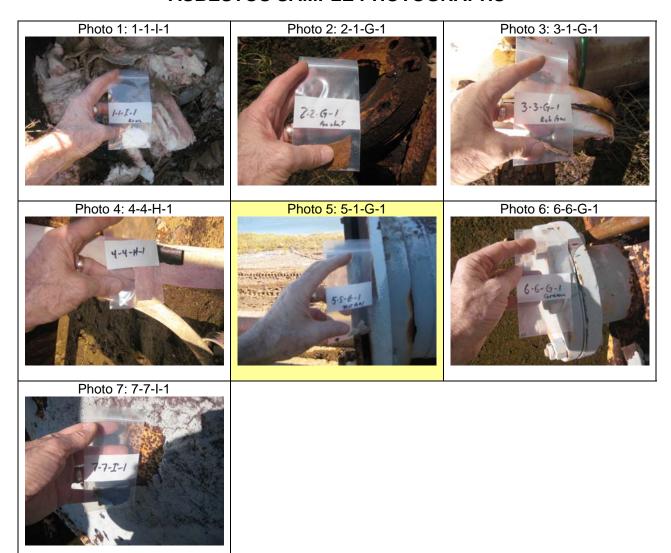
Thank you for the opportunity to work with you on your environmental needs. If you have any questions, please call me at (713) 476-9844 or 1-800-419-8881.

Sincerely,

Neal Barnes, P.G.

Asbestos Individual Consultant TDSHS License # 105626

## **ASBESTOS SAMPLE PHOTOGRAPHS**



## **ASBESTOS LABORATORY RESULTS**



Micro Analytical Services, Inc. 11301 Richmond Ave. Ste.K100B♦Houston♦Tx 77082♦Phone(281)497-4500♦Fax(281)497-4517

NVLAP Lab No. 200618-0 TDSHS License No. 30-0304

#### PLM BULK ASBESTOS ANALYSIS REPORT

CLIENT: Phase Engineering, Inc. MAS JOB NO.: 8040-00

**PROJECT:** 906 Marlin **REPORT DATE:** November 18, 2010

**IDENTIFICATION:** Asbestos, Bulk Sample Analysis, Quantitation by Visual Area Estimation

**TEST METHOD:** Polarized Light Microscopy with Dispersion Staining

EPA Test Method 600/M4-82-020;

Interim (40CFR Part 763 Appendix E to Subpart E)

#### STATEMENT OF LABORATORY ACCREDITATION

These samples were analyzed at Micro Analytical Services, Inc. in the Asbestos Laboratory at 11301 Richmond Ave. Suite K100B, Houston, Texas, 77082. The Laboratory holds accreditation from the National Institute of Standards and Technology under the National Voluntary Laboratory Accreditation Program (NVLAP). This laboratory is also licensed and authorized to perform as an Asbestos Laboratory in the State of Texas within the purview of Texas Civil Statutes, Article 4477-3a, as amended, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

The samples were analyzed in general accordance with the procedures outlined in the Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/M4-82-020 or the U.S. Environmental Protection Agency method, under AHERA, for the analysis of asbestos in building materials by polarized light microscopy. The results of each bulk sample relate only to the material tested and the results shall not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Specific questions concerning bulk sample results shall be directed to the Asbestos Bulk Laboratory at Micro Analytical Services, Inc.

Analyst: Tony T. Dang

**Approved Signatory:** 



Micro Analytical Services, Inc. 11301 Richmond Ave. Ste. K100B♦Houston♦Texas 77082♦Phone(281) 497-4500♦Fax(281) 497-4517

## **Polarized Light Microscopy Analysis**

Phase Engineering, Inc. 335 West 21st Street Houston, Texas 77008

MAS Project #: 8040-00 Date Received: 11/17/2010 Date Analyzed: 11/18/2010

Project Name: 906 Marlin

Field ID/	Layer#	Sample Description	Asbestos	Asbestos	Non-Asbestos
Lab ID	•		Detected?	Constituents	Constituents
			(Yes/No)	(%)	(%)
1-1-I-1	1	White fibrous insulation	No		100% fibrous Glass
MAS210374					
2-2-G-1	1	Rusted non-fibrous metal	No		100% Metal
MAS210375					
3-3-G-1	1	Black fibrous gasket with	No		10% Synthetic
MAS210376		beige paint			90% Rubber
4-4-H-1	1	Black fibrous hose	No		10% Synthetic
MAS210377					30% Cellulose
					60% Rubber
5-5-G-1	1	Grey fibrous transite	Yes	25% Chrysotile	75% Other
MAS210378					
6-6-G-1	1	Green fibrous gasket	No		40% Cellulose
MAS210379					60% Other
7-7-I-1	1	Dark non-fibrous mastic	No		100% Mastic
MAS210380					

Samples have been analyzed by the EPA Interim Method 600/M4-82-020. The test results herein relate only to the sample submitted and analyzed. This report may be only reproduced in full with the approval of the Bulk Asbestos Laboratory of Micro Analytical Services (MAS), Inc. The above percentages are visual estimates of area percent. MAS is not responsible for any errors resulting from improper or incorrect sampling or shipping procedures. These samples will be retained for a period of 30 days. Accreditation by NVLAP in no way constitutes or implies product certification, approval, or endorsement by NIST. Some materials, especially floor tiles, contain asbestos fibers too thin to be detected by this method. NVLAP Lab Code: 2000618 TDSHS License: 30-0341

Page 1 of 1

## **STATEMENT OF QUALIFICATIONS**



## TEXAS DEPARTMENT OF STATE HEALTH SERVICES

### PHASE ENGINEERING INC

is certified to perform as a

## **Asbestos Consultant Agency**

in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

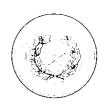
DAVID LAKEY, M.D. COMMISSIONER OF HEALTH

Daid Laky MD

License Number: 100224 Expiration Date: 12/26/2011

Control Number: 96277 (Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE



### TEXAS DEPARTMENT OF STATE HEALTH SERVICES

DAVID I., LAKEÝ, M.D. COMMISSIONER 1100 West 49th Street • Austin, Texas 78756 P.O. Box 149347 • Austin, Texas 78714-9347 1-888-963-7111 • <u>www.dshs.state.tx.us</u>

TTY: 1-800-735-2989

FEBRUARY 17, 2009

NEAL E BARNES PHASE ENGINEERING INC 335 WEST 21ST STREET HOUSTON, TX 77008

This is to verify that the individual shown below holds a valid credential to practice as an ASBESTOS INDIVIDUAL CONSULTANT in the State of Texas.

NAME: NEAL E BARNES

LICENSE TYPE: ASBESTOS INDIVIDUAL CONSULTANT

LICENSE NUMBER: 105626 CONTROL NUMBER: 95724 EXPIRATION DATE: 2/10/2011

If you have any questions, please contact us by phone at 512-834-6600, by fax at 512/834-6614. We encourage you to visit our website at http://www.dshs.state.tx.us for frequently updated information, including rules, laws, publications and forms. You may also verify a credential through this website.

Environmental & Sanitation Licensing Group



### TEXAS DEPARTMENT OF STATE HEALTH SERVICES

### MICRO ANALYTICAL SERVICES INC

is certified to perform as a

### **Asbestos Laboratory** PCM, PLM

in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

Daid Lake MD

DAVID LAKEY, M.D. COMMISSIONER OF HEALTH

License Number: 300341

Control Number: 95623

Expiration Date: 1/25/2012

(Void After Expiration Date)

**VOID IF ALTERED** 

NON-TRANSFERABLE



## National Voluntary Laboratory Accreditation Program



#### **SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

Micro Analytical Services, Inc.

11301 Richmond Ave., Suite K100B Houston, TX 77082

Mr. Tony Dang

Phone: 281-497-4500 Fax: 281-497-4517

E-Mail: tdang@mas-lab.com URL: http://www.mas-lab.com

#### **BULK ASBESTOS FIBER ANALYSIS (PLM)**

**NVLAP LAB CODE 200618-0** 

NVLAP Code Designation / Description

18/A01 EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation

Samples

2010-01-01 through 2010-12-31

Effective dates

Page 1 of 1

For the National Institute of Standards and Technology

United States Department of Commerce National Institute of Standards and Technology



# Certificate of Accreditation to ISO/IEC 17025:2005

**NVLAP LAB CODE: 200618-0** 

Micro Analytical Services, Inc.

Houston, TX

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

#### **BULK ASBESTOS FIBER ANALYSIS**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2010-01-01 through 2010-12-31

Effective dates



For the National Institute of Standards and Technology

### **LETTER OF ENGAGEMENT**

### Phase Engineering, Inc.

Environmental Consultants

November 12, 2010

Mr. Tony Maag Columbia Environmental Services, Inc. 13222 Reeveston Road Houston, Texas 77039 713-868-4845 ext 5651 email tmaag@columbiaenviro.com

Dear Mr. Maag:

We are pleased to make the following proposal for Professional Environmental Services for the tank farm area in the property located at 906 Marlin Avenue, Freeport, Brazoria County, Texas 77541:

Perform an asbestos inspection to identify suspect building materials that contain asbestos by a Texas Department of Health licensed inspector for renovation purposes. Exterior and roof materials will not be sampled as part of this inspection. By signing this agreement you agree that Phase Engineering, Inc. is not liable for any damage to these areas inspected. A minimum of three samples, of each suspect asbestos containing homogeneous building material will be taken, to satisfy the Texas Department of Health requirements for renovation/demolition of asbestos building materials. A minimum of one sample only may be required for exterior suspect asbestos containing materials sampled, if applicable. The samples will then be taken to the lab and analyzed for asbestos. It is recommended that the samples that are over one percent asbestos and under 5 percent asbestos should be point counted at the laboratory to confirm the percentage of asbestos in the building material. This analysis is more expensive than the traditional analysis (Polarized Light Microscopy) and is used when asbestos is near the one percent detection amounts. Transmission Electron Microscopy (TEM) is considered one of the most accurate methods for laboratory analysis for suspect asbestos containing building materials, however, this method is more costly and currently it is only recommended under federal regulations. Although Phase Engineering, Inc. uses trained and licensed inspectors in attempting to locate and identify materials potentially containing asbestos; Phase Engineering, Inc. does not warrant that all materials containing asbestos will be identified. It is possible that there are materials containing asbestos that were not found because they were not visible or accessible to the inspector, or for various other reasons, were not sampled.

Quoted price for inspection with sampling: \$500.00 plus \$15.00 per sample analyzed. The amount of samples taken will depend on how many will be required, at a minimum, to satisfy the regulations for renovation/demolition.

Point count analysis: \$50.00 per sample analyzed, when applicable and pre approved.

Point count analysis: \$50.00 per sample analyzed, when applicable and pre approved. Rush fees are \$750.00 for inspection plus \$30.00 per sample analyzed.

- Includes two copies of final report with findings, conclusions and recommendations.
   Additional Copies @ \$50.00 each.
- Delivery: Verbal as soon as results are delivered from the laboratory. Final Report approximately 10-12 working days from receipt of laboratory results. Delivery charges may apply, not to exceed \$30.00 per delivery, unless client arranges pickup at their own expense.
- Terms: Net due upon receipt of final report.
- Insurance coverage: \$2,000,000 Professional and General Liability.

If the above terms and conditions are acceptable, please sign and return (fax 713 476-9797) a copy of this letter to serve as a letter of engagement and notification to proceed. The following information is needed to begin the project:

- 1. Access to all areas to be sampled and Contact Name & Telephone Number and Current Owner Name.
- 2. Floor plans sent to our office prior to inspection. Inspection will be conducted after receipt of work plan and drawings. If project is a complete demolition these items may not be required if not available. If floor plans are not provided a \$50.00 drawing fee may apply.
- 3. Entity for which the report and invoice will be addressed and delivery instructions. If no written information is provided to Phase engineering, Inc. regarding these items, the reports will be issued, billed and delivered to above.

Thank you for the opportunity to work with you on your environmental needs. If you have any questions, please call me at (713) 476-9844 or 1-800-419-8881.

Sincerely,

Neal Barnes, P.G. Asbestos Consultant

Default delivery is by PDF file. Initial if you prefer to have paper copies shipped.

•

# Permit Information

Parcel Number:	2	108-0010-000	removed between the security function and the last transfer product and and
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200 WEST SECOND STREET / FREEPORT, TEXAS 77541 / PHONE (979) 233-3526 / FAX (979) 233-2172

### PERMIT APPLICATION

Applicant's Name: Columbia Environmental SVS, Inc.
Owners Name: Guirco Manine Maintenance
Owners Address: 10/3222 REEVESTON, Houston, Tx
77039
JOB INFORMATION
Contractor's Name: Columbia Environmental SVS., Inc.
Work Location: 906 Mprlin Ave, Freepont, Tr
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### Phase Engineering, Inc.

Environmental Consultants

November 16, 2010

Mr. Tony Maag
Columbia Environmental Services, Inc.
13222 Reeveston Road
Houston, Texas 77039
713-868-4845 ext 5651 email tmaag@columbiaenviro.com

RE: Asbestos Inspection for demolition purposes of the suspect materials in the tank farm area located at 606 Marlin Avenue, Freeport, Brazoria County, Texas 77541.

Dear Mr. Maag:

An asbestos inspection was conducted November 15, 2010 by Neal Barnes (TDSHS license # 10-5626) of Phase Engineering, Inc. (TDSHS license # 10-0224) in accordance with the National Emission Standards for Hazardous Air Pollutants (Title 40, CFR, Part 61) of the suspect materials in the tank farm area located at 606 Marlin Avenue, Freeport, Brazoria County, Texas 77541 as described within the report to follow. Greater than 1% asbestos was detected in gray vlave gasket material. No other asbestos greater than 1% was detected in the suspect asbestos containing building materials sampled and analyzed within the areas subject to renovation.

If the facility is to be demolished or renovated it is recommended that any ACBMs or assumed ACBMs that will be disturbed be removed by a licensed abatement contractor and if applicable, a licensed asbestos consultant. The TDSHS Demolition/Renovation Notification form combines the requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Subpart M (NESHAP) and the Texas Asbestos Health Protection Rules (TAHPR). Both of these regulations require that written notification be submitted before beginning renovation projects that include the disturbance of any asbestos-containing material in a facility. A notification form is required before the demolition of a building or facility, even when no asbestos is present. This form must be used to fulfill either of these requirements. Please call either 512-834-6610 or 1-800-572-5548 (within Texas), or your local regional office for assistance in completing this form.

During renovation or demolition activities, care should be exercised in dealing with all construction materials even those shown to be non-asbestos containing (this would include materials technically considered as non-asbestos containing because they are below the one percent limit). If these non-asbestos materials are to be disturbed work practices should be used that will limit exposure to dust and debris. Contractors performing this work should conform to OSHA regulations outlined in 29 CFR 1926.55 (exposure limits can be found in 29 CFR 1910.1000 Table Z-3).

During renovation or demolition activities it is required to have a copy of the asbestos inspection report available during all phases of the renovation or demolition. If you should have any questions or comments concerning the inspection or this letter please call me at (713) 476-9844 or (800) 419-8881. We appreciate you using Phase Engineering, Inc. professional environmental services and look forward to serving you again in the near future.

Sincerely,

Neal Barnes, P.G. Asbestos Consultant

TDSHS License # 105626

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For Office Use Only:		
Notification #:		

# ASBESTOS/DEMOLITION NOTIFICATION FORM

	DO NOT WRITE IN THIS BOX- FOR DEPARTMENT USE ONLY  Date received:// Postmark date:// Walk-in date:/_/_
	TYPE OF NOTIFICATION: (Select one and fill in the requested information)
$\boxtimes$	ORIGINAL AMENDMENT No CANCELLATION
	EMERGENCY  •Was emergency request made to the Regional Office or Environmental Health Notifications Group (EHNG) by phone?  ☐Yes ☐No  •If yes, the DSHS reference #: and name of the Regional or EHNG representative with whom you spoke?
	Date:/ _/ _ Time: a.mp.m.  •Describe the reason for Emergency:
	ORDERED: (For structurally unsound facilities, attach copy of demolition order and identify Governmental Official)  Name: Registration No  Title:
	Date of order (MM/DD/YY): _/ _/ Date order to begin (MM/DD/YY):/ _/
(x) lelow if mended	<u>AMENDMENTS:</u> You must complete the entire form and <u>mark</u> the appropriate check box(es) along the left-hand side of this form to indicate amended information.
	TYPE OF WORK
	☐ Asbestos Abatement ☐ Demolition ☐ Annual Consolidated O&M ☐ Abatement/Demolition Is this a phased project? ☐ Yes ☐ No
<b>X</b>	FACILITY INFORMATION  1. Facility Location  Description or Facility Name: Former Gulfco Marine Maintance Facility  Physical Address: 906 marlin Ave  County: Brazoria City: Freeport Zip: 77541  Facility Contact: Tony Maag Phone #: (281) 740-6607
	2. Type of Facility (Select one)  ☐ Public ☐ Federal ☐ Industrial/Manufacturing ☒ NESHAP-Only ☐ Public School K-12
<u>]</u>	3. Facility Details  Description of Area/Room Number: Tank Demo  Age of Building: 30+ Size: 30K SF Number of Floors: 1  Is this building occupied? Yes No  Prior Use: Mantiance Facility TANK FARM  Future Use: Abandon  Date of Asbestos Survey/NESHAP Inspection: 11/16/10  DSHS Inspector License #: 105626  Analytical Method: PLM TEM Assumed Asbestos No Suspect Material  DSHS Laboratory License #: 30-0340
	WORK SCHEDULE/ASBESTOS AMOUNTS (Note: if the start date(s) entered below cannot be met, the DSHS Regional or Local Program office must be notified prior to the scheduled start date. Failure to do so is a violation of TAHPA Section 295.61.)
]	1. Asbestos Abatement Work Schedule:  Start date: _ / / and End date: _ / /  Work days: _ Mon Tues Wed Thurs Fri Sat Sun.  Working hours: a.m p.m. to a.m p.m.  2. Demolition Work Schedule:  Start date: 12/08/10 and End date: 01/06/11
<u> </u>	Work days: Mon. Notes. Notes. Notes. Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes and Notes an

Asbestos-Containing Building Material Type	Approximate amount of Asbestos						
*Only mark the boxes below on this chart if they are being amended	Pipes	Ln Ft	Ln M	Surface Area	SQ Ft	SQ M	Cı Ft
RACM to be removed		$\boxtimes$		2			
RACM left in place during demolition							
Interior Category I non-friable removed		Щ	Ш				
Exterior Category I non-friable removed		H	H				
☐ Category I non-friable left in place during demolition☐ Interior Category II non-friable removed		$\dashv$	┞╠┤		-	Ц.	_
Exterior Category II non-friable removed		+			+	+	
Category II non-friable left in place during demolition		H	+		-	H	_
Category is non-intable test in place during demonstron	1						-
DESCRIPTION OF WORK PRACTICES AND PROCEDU.  1. Description of procedures to be followed in the event that unes material becomes crumbled, pulverized, or reduced to powder: T	xpected a	s will	apply	Z			
DESCRIPTION OF WORK PRACTICES AND PROCEDU      1. Description of procedures to be followed in the event that une material becomes crumbled, pulverized, or reduced to powder: T.      2. Description of planned demolition or abatement work, type of s	xpected a	s will	apply	Z			
DESCRIPTION OF WORK PRACTICES AND PROCEDU      1. Description of procedures to be followed in the event that une material becomes crumbled, pulverized, or reduced to powder: T.      2. Description of planned demolition or abatement work, type of	xpected a	s will	apply	Z			
PACM Off-Facility Component  DESCRIPTION OF WORK PRACTICES AND PROCEDU  1. Description of procedures to be followed in the event that unes material becomes crumbled, pulverized, or reduced to powder: T.  2. Description of planned demolition or abatement work, type of s	pected a DH Rule material,	s will	apply nethod	! d(s) to be used: <u>C</u>	ut up	and r	<u>cem</u> (
DESCRIPTION OF WORK PRACTICES AND PROCEDU.  1. Description of procedures to be followed in the event that unes material becomes crumbled, pulverized, or reduced to powder: T.  2. Description of planned demolition or abatement work, type of and removal of 2 square feet of gasket material  3. Description of work practices and engineering controls to be a square feet of gasket material	pected a DH Rule material,	s will	apply nethod	! d(s) to be used: <u>C</u>	ut up	and r	<u>emo</u>
PACM Off-Facility Component  DESCRIPTION OF WORK PRACTICES AND PROCEDUM  1. Description of procedures to be followed in the event that unexplained becomes crumbled, pulverized, or reduced to powder: The second of planned demolition or abatement work, type of and removal of 2 square feet of gasket material  3. Description of work practices and engineering controls to be a Wear proper PPE, cut flage off and drum for disposal  PROJECT INFORMATION  A. FACILITY OWNER	pected a DH Rule material,	s will	apply nethod	! d(s) to be used: <u>C</u>	ut up	and r	<u>cem</u> (
DESCRIPTION OF WORK PRACTICES AND PROCEDU  1. Description of procedures to be followed in the event that unes material becomes crumbled, pulverized, or reduced to powder: T.  2. Description of planned demolition or abatement work, type of and removal of 2 square feet of gasket material  3. Description of work practices and engineering controls to be a Wear proper PPE, cut flage off and drum for disposal  PROJECT INFORMATION	pected a DH Rule material,	s will	apply nethod	! d(s) to be used: <u>C</u>	ut up	and r	<u>em</u> c

...... C. ASBESTOS ABATEMENT CONTRACTOR #2 (Only if there is more than one Contractor)

DSHS Asbestos Contractor License #: NA

_____ DSHS Supervisor License #: NA Site Supervisor: _____ Site Supervisor: _____

City: NA State: NA Zip: NA
Office Phone #: (NA) - Job-Site Phone #: (NA) -

Contractor Name: NA

D. ASBESTOS SUPERVISOR

Address: NA

(x) selow if		
mended	E. NESHAP TRAINED INDIVIDUAL	
☐	NESHAP Trained Individual: NA	
	Certification Date:/_/_	
<b></b>	F. DEMOLITION CONTRACTOR	
	Demolition Contractor: Effective Environmental, Inc.	
	Address: 2515 S. Beltline Rd	
	City: Mesquite State: TX Zip: 75181 Phone #: (972) 329-1200G. PROJECT CONSULTANT OR OPERATOR	
ш	DSHS License No.: 10-5519	
	Project Consultant or Operator: Enercon	
	Address: 12100 Ford Rd, Ste 200	
	City: <u>Dallas</u> State: <u>TX</u> Zip: <u>75234</u> Phone #: <u>(972) 484-3854</u>	
П	H. Waste Transporter	
	DSHS Waste Transporter License #:	
	Waste Transporter: to be determined	
	Address:City: State: Zip:	
	City: State: Zip: Contact Person: Phone #: ()	
Ц····	I. Waste Disposal Site TCEQ Permit #: 1721A	
	Waste Disposal Site: Waste Managment	
	Address: 19818 E Highway 6	
	City: Alvin State: TX Zip: 77511	
	Phone #: (713) 423-1714	
	CERTIFICATION STATEMENT	
	I hereby declare that I have examined this notification and, to the best of my knowledge and belief, all information pro	vided is
	complete, true, and correct. I affirm that I am the owner, operator, or delegated agent and that I am responsible for the	fee
	associated with this notification. I also understand that the owner, operator, or delegated agent is responsible for notifithe department.	cation to
	the department.	
	Date: 11/25/10	
	(Signature of Owner, Operator or Delegated Agent)	
	Tony Maag/PM	.3
	(Printed Name & Title)	
	E-mail Address: tmaag@columbiaenviro.com Phone #: (281) 740-6607	

#### **IMPORTANT INFORMATION**

#### NOTIFICATION TIMELINESS REQUIREMENT:

Your Asbestos/Demolition Notification form must be postmarked no less than ten working days (not calendar days) prior to the start of any asbestos abatement or demolition.

FILING FEE: An invoice will be mailed to the facility owner upon completion of the project.

**CALL FOR ASSISTANCE:** 

(512) 834-6747 or (888) 778-9440 (toll free in Texas)

MAIL FORM TO:

ENVIRONMENTAL HEALTH NOTIFICATIONS GROUP

TEXAS DEPARTMENT OF STATE HEALTH SERVICES

PO BOX 143538

AUSTIN, TX 78714-3538

# APPENDIX F TANK CERTIFICATES OF DESTRUCTION



Eric Pastor
Pastor, Behling & Wheeler, LLC
2201 Double Creek Drive, Suite 4004

Round Rock, Texas 78664 Phone: 512-671-3434

Email: eric.pastor@pbwllc.com

Subject: Tank Destruction Certificate Former Gulfco Superfund Site

LDL Coastal, LP

Effective Environmental, Inc. (E2) does herby certify that the following tank with the associated volume was demolished on site and the material was sent to Proler Southwest, Inc. at 90 Hirsch Road in Houston, Texas for recycling. The demolition was done in accordance with the Work Implementation Plan for the project. The scrap delivery tickets are being submitted as a package. The shipments were not specific to each tank or tank numbers.

Tank No	2	Capacity:	7,500 gal

Certified by:

Greg Blomquist

2515 S. Beltline Rd. Mesquite, TX 75181 Phone: 972 329 1200 Fax: 972 329 1206



Eric Pastor
Pastor, Behling & Wheeler, LLC
2201 Double Creek Drive, Suite 4004
Round Rock, Texas 78664

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Tank No. 4 Capacity: 28,700 gg (

Certified by:

**Greg Blomquist** 

2515 S. Beltline Rd. Mesquite, TX 75181 Phone: 972 329 1200 Fax: 972 329 1206



Eric Pastor
Pastor, Behling & Wheeler, LLC
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Tank No. 6 Capacity: 31,000 gal

Certified by:

Greg Blomquist

2515 S. Beltline Rd. Mesquite, TX 75181 Phone: 972 329 1200 Fax: 972 329 1206



Eric Pastor
Pastor, Behling & Wheeler, LLC
2201 Double Creek Drive, Suite 4004
Round Rock, Texas 78664

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Tank No. 10 Capacity: 3,400 ga/

Certified by:

Greg Blomquist

2515 S. Beltline Rd. Mesquite, TX 75181 Phone: 972 329 1200 Fax: 972 329 1206



Eric Pastor Pastor, Behling & Wheeler, LLC 2201 Double Creek Drive, Suite 4004 Round Rock, Texas 78664

Phone: 512-671-3434

Email: <a href="mailto:eric.pastor@pbwllc.com">eric.pastor@pbwllc.com</a>

Subject: Tank Destruction Certificate

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Tank No.	13	Capacity: <u>6,000 g</u> a
. a		σαρασιτή: <u>Φ/σσσ</u> σ

Certified by:

Greg Blomquist

2515 S. Beltline Rd. Mesquite, TX 75181 Phone: 972 329 1200 Fax: 972 329 1206



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Tank No. 14

Capacity: 10,000 gol

Certified by:

Greg Blomquist

2515 S. Beltline Rd. Mesquite, TX 75181 Phone: 972 329 1200 Fax: 972 329 1206



Eric Pastor Pastor, Behling & Wheeler, LLC 2201 Double Creek Drive, Suite 4004 Round Rock, Texas 78664

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Capacity: <u>73,500</u>gol

Certified by:

**Greg Blomquist** 

2515 S. Beltline Rd. Mesquite, TX 75181 Phone: 972 329 1200

Fax: 972 329 1206

9950 Chemical Road Houston, TX 77507 Phone: 713 672 6100

Fax: 713 672 6101



Eric Pastor
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Email: <a href="mailto:eric.pastor@pbwllc.com">eric.pastor@pbwllc.com</a>

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Tank No. 16 Capacity: <u>5,000 gg</u>(

Certified by:

Greg Blomquist

2515 S. Beltline Rd. Mesquite, TX 75181 Phone: 972 329 1200

Fax: 972 329 1206

9950 Chemical Road Houston, TX 77507 Phone: 713 672 6100

Fax: 713 672 6101



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Round Rock, Texas 78664 Phone: 512-671-3434

Email: eric.pastor@pbwllc.com

Subject: Tank Destruction Certificate

Former Gulfco Superfund Site

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Tank No. ______ Capacity: <u>4,000 gal</u>

Certified by:

Greg Blomquist

2515 S. Beltline Rd. Mesquite, TX 75181 Phone: 972 329 1200 Fax: 972 329 1206



Eric Pastor Pastor, Behling & Wheeler, LLC 2201 Double Creek Drive, Suite 4004 Round Rock, Texas 78664

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Subject: Tank Destruction Certificate

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Tank No. 18 Capacity: 3,000 ga (

Certified by:

**Greg Blomquist** 

2515 S. Beltline Rd. Mesquite, TX 75181 Phone: 972 329 1200

Fax: 972 329 1206

9950 Chemical Road Houston, TX 77507 Phone: 713 672 6100

Fax: 713 672 6101



Eric Pastor
Pastor, Behling & Wheeler, LLC
2201 Double Creek Drive, Suite 4004
Round Rock, Texas 78664

Phone: 512-671-3434

Email: eric.pastor@pbwllc.com

Subject: Tank Destruction Certificate

Former Gulfco Superfund Site

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Tank No. 19 Capacity: <u>73,500 gp</u> C

Certified by:

Greg Blomquist

2515 S. Beltline Rd. Mesquite, TX 75181 Phone: 972 329 1200 Fax: 972 329 1206



Eric Pastor Pastor, Behling & Wheeler, LLC 2201 Double Creek Drive, Suite 4004 Round Rock, Texas 78664

Phone: 512-671-3434

Email: <a href="mailto:eric.pastor@pbwllc.com">eric.pastor@pbwllc.com</a>

Subject: Tank Destruction Certificate

Former Gulfco Superfund Site

LDL Coastal, LP

Effective Environmental, Inc. (E2) does herby certify that the following tank with the associated volume was demolished on site and the material was sent to Proler Southwest, Inc. at 90 Hirsch Road in Houston, Texas for recycling. The demolition was done in accordance with the Work Implementation Plan for the project. The scrap delivery tickets are being submitted as a package. The shipments were not specific to each tank or tank numbers.

Tank No. 21 Capacity: 73,500 gol

Certified by:

Greg Blomquist

2515 S. Beltline Rd. Mesquite, TX 75181 Phone: 972 329 1200

Fax: 972 329 1206

9950 Chemical Road Houston, TX 77507 Phone: 713 672 6100

Fax: 713 672 6101



Eric Pastor Pastor, Behling & Wheeler, LLC 2201 Double Creek Drive, Suite 4004 Round Rock, Texas 78664

Phone: 512-671-3434

Email: eric.pastor@pbwllc.com

Subject: Tank Destruction Certificate

Former Gulfco Superfund Site

LDL Coastal, LP

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Tank No. 22 Capacity: 6,000 gol

Sougust

Certified by:

**Greg Blomquist** 

2515 S. Beltline Rd. Mesquite, TX 75181 Phone: 972 329 1200

Fax: 972 329 1206

9950 Chemical Road Houston, TX 77507 Phone: 713 672 6100

Fax: 713 672 6101



Eric Pastor Pastor, Behling & Wheeler, LLC 2201 Double Creek Drive, Suite 4004 Round Rock, Texas 78664

Phone: 512-671-3434

Email: <a href="mailto:eric.pastor@pbwllc.com">eric.pastor@pbwllc.com</a>

Subject: Tank Destruction Certificate

Former Gulfco Superfund Site

3 Blongust

LDL Coastal, LP

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Tank No. 23

Capacity: 500 gol

Certified by:

Greg Blomquist

2515 S. Beltline Rd. Mesquite, TX 75181 Phone: 972 329 1200

Fax: 972 329 1206

#### APPENDIX G

NORTH CONTAINMENT AREA SOIL EXCAVATION APPROACH DOCUMENTATION

#### **Eric Pastor**

From:

Miller.Garyg@epamail.epa.gov

Sent:

Friday, January 07, 2011 4:21 PM

To:

Eric Pastor

Cc:

Voskov, Luda: Sanchez, Carlos@epamail.epa.gov; Nann, Barbara@epamail.epa.gov;

Bhattacharya.Dipanjana@epamail.epa.gov; Shade.Kevin@epamail.epa.gov;

Roddy.Susan@epamail.epa.gov

Subject:

Re: Proposed Approach to Address Gulfco Tank Farm North Containment Area

Attachments: Tank Content Concentrations.pdf; AST Tank Farm Containment Area Soil Excavation

Comparison Criteria.pdf; Figure 1 - Tank Farm Map.pdf; NEDR Figure 3 - Well Locations.pdf;

Table 24 - Zone A Groundwater Exceedences.pdf

#### Eric,

The proposed plan below to address the Gulfco Tank Farm north containment area is approved. FYI, EPA's contractors will be on-site and plan to collect sample splits for the verification samples.

Regards,

Gary Miller, P.E. Remediation Project Manager EPA Region 6 - Superfund (6SF-RA) (214) 665-8318 miller.garyg@epa.gov

From:

"Eric Pastor" <eric.pastor@pbwllc.com>

To:

Garyg Miller/R6/USEPA/US@EPA

Date:

01/07/2011 10:45 AM

Subject:

Proposed Approach to Address Gulfco Tank Farm North Containment Area

#### Hi Gary -

As you know from our previous communications, during the performance of the time critical removal action at the former Gulfco tank farm area, we recently observed that the north containment area floor was constructed of a compacted caliche base material rather than concrete as was previously thought (the south containment area floor was constructed of concrete as anticipated). As indicated in my e-mail to you on December 23, 2010, visible staining of this north containment area caliche floor below the footprint of Tank No. 6 was observed when that tank was removed. In addition, we have recently observed smaller isolated areas of staining below Tank Nos. 2, 15, and 21 in the north containment area (see attached Figure 1 - tank farm map for locations).

In accordance with our previous communications, I am sending this e-mail to outline our proposed plan for addressing the areas of observed impacts to the north containment area floor and decontaminating that area prior to demolishing sections of the containment area dikes as described in the removal action work plan. I would greatly appreciate it if you could review and comment on these proposed activities at your earliest convenience, so we may proceed with their implementation as soon as possible.

Specifically, we propose to perform the following:

- 1) Focused areas of the caliche floor below the former footprints of Tank Nos. 2, 6, 15 and 21 where visible staining is observed will be excavated. As practical, we propose to excavate the caliche floor and underlying soils as necessary until no visible staining is observed at the floors and walls of each excavated area. In addition, we will scrap and remove the upper approximately two inches of the caliche floor from the balance of the north containment area.
- 2) Excavated soil and caliche will be placed in water-tight roll-off bins staged near the excavation area. One or more representative samples of the excavated material will be collected by the remediation contractor for waste classification and profiling. Following completion of sample analyses and profiling, the excavated material will be shipped off-site for management at one of the facilities specified in Table 6 of the removal action work plan, or an alternative facility certified in advance by EPA as described in the Settlement Agreement.
- 3) Upon reaching the above excavation goal, we will collect verification samples of the caliche floor and/or underlying soil. Specific numbers and locations of verification samples will be selected in the field based on the areas, sizes and configurations of the areas excavated. For planning purposes, it is anticipated that two samples will be collected from the Tank No. 6 footprint and one sample will be collected from each of the Tank Nos. 2, 15, and 21 footprints. These samples will be analyzed for the project volatile organic compound (VOC) and semivolatile organic compound (SVOC) analytes listed in the attached Table 1. Sampling and analytical procedures will be as specified in the Field Sampling Plan (FSP) and Quality Assurance Project Plan (QAPP). Level III analyses and validation will be performed. Analytical results will be compared to the comparison criteria listed in the attached Table 1 on an individual or statistical basis in accordance with EPA guidance. As indicated in Table 1, the comparison criteria are the lower of EPA and TCEQ risk-based screening values for direct contact with soil by industrial/commercial workers.
- 4) In the event that some areas can not practically be excavated such that visible staining is removed or the extent of impacted caliche/soil is anticipated to preclude effective remediation by excavation, we will contact you to discuss potential in-place remediation options. Pending that discussion and with EPA's concurrence, we will excavate as much material as appropriate and collect verification samples to document VOC and SVOC concentrations in the residual (i.e., post-excavation) soil/caliche.
- 5) Similarly, in the event that the comparison of verification samples described above indicates that residual soil/caliche concentrations exceed comparison criteria, we will contact you to discuss potential in-place remediation options. Pending that discussion and EPA's input, we will propose additional remediation activities for EPA review.
- 6) Following completion of the above excavation and sampling activities, backfilling of excavated areas will be performed as necessary to minimize the potential for accumulation of rainfall in low spots. Containment area berms will subsequently be demolished in accordance with the removal action work plan.

As we discussed and as shown on the attached Figure 3 from the previously submitted Nature and Extent Data Report (NEDR), three monitoring wells (SE6MW09, SF5MW10 and SF6MW11) are located immediately adjacent to or within 50 feet of the north containment area. As part of the RI, samples from these wells were analyzed for the full suite of Site chemicals of interest (COIs). As indicated on page 4 in the attached Table 24 from the NEDR, the only COIs detected in these samples at concentrations exceeding groundwater extent evaluation comparison values were very low and estimated (i.e., J-flagged) concentrations of silver (SE6MW09 and SF6MW11) and gamma-BHC (Lindane) (SF5MW10), neither of which were detected in samples from Tank Nos. 2, 6, 15, and 21 as shown on the attached Table 1 from the removal action work plan.

Thanks for reviewing this description of our proposed work. Please let me know if you have any comments/revisions or need any additional information before we proceed.

Eric Pastor Pastor, Behling & Wheeler, LLC 2201 Double Creek Drive, Suite 4004 Round Rock, Texas 78664 512-671-3434

Table 1
Gulfco Former AST Tank Farm
Tank Sample - RCI/Toxicity Data

Tank No.	Sample ID.	Physical Description	Hd	Reactivity Sulfide	Reactivity Cyanide	Lashpoint Deg. F.	T/b Arsenic	Barium A/bu	Benzene Mg/L	Cadmiu B	Carbon Tetrachloride
					•						
Tank No. 2	TK-2-O	Aqueous Phase	NA	NA	NA	NA	<0.0024	12.1	<0.177	NA	NA
	TK-2-O	Organic Phase	5.95	112	<250	>212	<0.0024	8.19	0.415 J	0.0033 B	<0.013
	TK-2-S	Solids- sand, debris, etc.	NA	NA	NA	NA	<0.0024	2.82	24.1	0.0038 B	<0.256
Tank No. 4	TK-4-A	Oily Water	7.4	<96	<250	>212	<0.0024	29.7	<0.000177	0.016	<0.000336
											0.00000
Tank No. 6	TK-6-S	Rust Solids	NA	NA	NA	NA	<0.0024	0.89 B	<0.009	0.002 B	<0.00512
Tank No. 13	TK-13-O	Oily sludge	6.89	80	<250	>212	<0.0024	0.27 B	13.8	<0.00022	<0.128
Tank No. 14	None	Empty (2 in. of rust solids)	NA	NA	NA	NA	NA	NA	NA	NA	NA
				×							
Tank No. 15	TK-15-O	Oily sludge	6.38	<80	<250	126	<0.0024	0.22 B	5.3	<0.00022	<0.00512
Tank No. 16	TK-16-O	Oily sludge	6.31	<80	<250	>212	<0.0024	0.39 B	<0.009	<0.00022	<0.00512
Tank No. 17	TK-17-S	Rust solids	NA	NA	NA	NA	<0.0024	0.56 B	<0.009	0.0012 B	<0.00512
Tank No. 18	TK-18-O	Light Organic Phase	3.37	<417	<250	90	<0.024	0.53 B	<9	<0.0022	<5.12
Tank No. 19	TK-19-O	Oily sludge	6.75	216	<250	104	<0.0024	1.33	<4.5	<0.00022	<2.56
Tank No. 21	TK-21-A	Oily water	8.5	<80	<250	>212	<0.0024	0.0021 B	51.6 J	<0.00022	<5.12
Tank No. 22	TK-22-O	Oily sludge	6.74	<80	<250	>212	<0.0024	0.28 B	<0.009	<0.00022	<0.00512
Tank No. 23	TK-23-O (mg/kg)	Appears to be diesel	6.72	160	<250	126	<0.16	0.26B	<2.08	<0.013	<2.4
					2	-					
North Containment Area	Dike North	Water	NA	NA	NA	NA	0.012	1.17	0.011	<0.00019	0.00889 J
South Containment Area	Dike South	Water	NA	NA	NA	NA	0.024	0.49	0.015	<0.00019	<0.000336
Hazardous Criteria			= 2 or /= 12.5	>/= 500	>/= 250	<140	5	100	0.5	1	0.5

Table 1
Gulfco Former AST Tank Farm
Tank Sample - RCI/Toxicity Data

Tank No.	Sample ID.	Physical Description	T/Chlordane	Chlorobenzene	Chloroform	Ma/r Chromium	o-Cresol	mg/L	To see O	1,2-Dichloroethane	3 1,4-Dichlorobenzene	mg/2,4'-D
			ing/L	i ilig/L	IIIg/L	IIIg/L	IIIg/L	I Hig/L	I IIIg/L	IIIg/L .	I Hig/L	IIIg/L
Tank No. 2	TK-2-O TK-2-O TK-2-S	Aqueous Phase Organic Phase Solids- sand, debris, etc.	NA <0.00008 <0.00008	<0.162 <0.021 <0.426	1.5 J 2.25 20.7	0.16 <0.0012 0.0045 B	<0.409 <0.0012 0.00275 J	<0.368 <0.0014 <0.0014	NA <0.003 0.00414 J	7.97 8.4 203	<0.0538 <0.0011 <0.0011	NA <0.0027 <0.0027
Tank No. 4	TK-4-A	Oily Water	NA	<0.000162	<0.00018	<0.0012	<0.00327	<0.00295	NA	<0.000176	<0.000538	<0.00027
Tank No. 6	TK-6-S	Rust Solids	<0.00008	<0.00852	<0.00776	<0.0012	<0.0012	<0.0014	<0.003	<0.0082	<0.0011	<0.0027
Tank No. 13	TK-13-O	Oily sludge	<0.00008	<0.213	1.32 J	<0.0012	<0.0012	0.00143 J	<0.003	2.73 J	<0.0011	<0.0027
Tank No. 14	None	Empty (2 in. of rust solids)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tank No. 15	TK-15-O	Oily sludge	<0.00008	<0.00852	<0.00776	<0.0012	<0.013 J	<0.0014	0.013 J	<0.0082	<0.0011	<0.0027
Tank No. 16	TK-16-O	Oily sludge	<0.00008	<0.00852	<0.00776	<0.0012	<0.0012	0.037 J	0.037 J	<0.0082	<0.0011	<0.0027
Tank No. 17	TK-17-S	Rust solids	<0.0004	<0.00852	<0.00776	<0.0012	<0.0012	<0.0014	<0.003	<0.0082	<0.0011	<0.0027
Tank No. 18	TK-18-O	Light Organic Phase	<0.01431	<8.52	216	<0.012	<0.1764	<0.2134	<0.444	<8.2	<0.1577	<0.0027
Tank No. 19	TK-19-O	Oily sludge	<0.00008	<4.26	<3.88	<0.0012	0.0046 J	<0.0014	0.00486 J	<4.1	<0.0011	<0.0027
Tank No. 21	TK-21-A	Oily water	<0.00008	<8.52	2100	<0.0012	<0.0012	<0.0014	<0.003	224	<0.0011	<0.0027
Tank No. 22	TK-22-O	Oily sludge	<0.00008	<0.00852	<0.00776	<0.0012	<0.0012	0.00364 J	0.00364 J	<0.0082	<0.0011	<0.0027
Tank No. 23	TK-23-O (mg/kg)	Appears to be diesel	NA	<3.31	<2.83	<0.049	NA	NA	NA	<2.28	<8.44	NA
North Containment Area	Dike North	Water	NA	<0.000324	0.095	0.0028 B	<0.000327	<0.000295	NA	0.045	<0.00108	<0.0027
South Containment Area	Dike South	Water	NA	<0.000162	0.03	0.0031 B	<0.000327	<0.000295	NA	0.00304 J	<0.000538	<0.00027
Hazardous Criteria			0.03	100	6	5	200	200	200	0.5	7.5	10

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Gulfco Former AST Tank Farm
Tank Sample - RCI/Toxicity Data

			1,1-Dichloroethene	2,4-Dinitrotoluene	Endrin	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Hexachlorobutadiene	Hexachloroethane	Lead
Tank No.	Sample ID.	Physical Description	mg/L	mg/L	ய் mg/L	mg/L	mg/L	mg/L	ゴ mg/L	mg/L	mg/L
			ing/L	mg/L	mg/L	mg/L	mg/L	IIIg/L	mg/L	IIIg/L	IIIg/L
Tank No. 2	TK-2-O	Aqueous Phase	<0.205	<0.579	NA	NA	NA	<0.32	<0.45	<1.05	<0.0013
	TK-2-O	Organic Phase	<0.023	<0.0036	<0.00007	<0.00004	<0.00005	<0.0015	<0.0017	<0.0016	0.043 B
	TK-2-S	Solids- sand, debris, etc.	<0.458	<0.0036	<0.00007	<0.00004	<0.0005	<0.0015	<0.0017	<0.0016	0.0084 B
Tank No. 4	TK-4-A	Oily Water	<0.000205	<0.00464	<0.0000832	<0.0000439	0.00065	<0.00256	<0.00045	<0.00842	0.28
Tank No. 6	TK-6-S	Rust Solids	<0.00916	<0.0036	<0.00007	<0.00004	<0.00005	<0.0015	<0.0017	<0.0016	0.0028 B
Tank No. 13	TK-13-O	Oily sludge	<0.229	<0.0036	<0.00007	<0.00004	0.00057	<0.0015	<0.0017	<0.0016	0.0035 B
Tank No. 14	None	Empty (2 in. of rust solids)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tank No. 15	TK-15-O	Oily sludge	<0.00916	<0.0036	<0.00007	<0.00004	<0.00005	<0.0015	<0.0017	<0.0016	<0.0013
Tank No. 16	TK-16-O	Oily sludge	<0.00916	<0.0036	<0.00007	<0.00004	<0.00005	<0.0015	<0.0017	<0.0016	<0.0013
Tank No. 17	TK-17-S	Rust solids	<0.00916	<0.0036	<0.00033	<0.00019	<0.00024	<0.0015	<0.0017	<0.0016	0.022 B
Tank No. 18	TK-18-O	Light Organic Phase	<9.16	<0.5339	<0.01182	0.029 J	<0.00862	<0.2179	<0.248	<0.2358	<0.013
Tank No. 19	TK-19-O	Oily sludge	<4.58	<0.0036	<0.00007	<0.00004	<0.00005	<0.0015	<0.0017	<0.0016	0.0056 B
Tank No. 21	TK-21-A	Oily water	<9.16	<0.0036	<0.00007	<0.00004	<0.00005	<0.0015	<0.0017	<0.0016	<0.0013
Tank No. 22	TK-22-O	Oily sludge	<0.00916	<0.0036	<0.00007	<0.00004	<0.00005	<0.0015	<0.0017	<0.0016	<0.0013
Tank No. 23	TK-23-O (mg/kg)	Appears to be diesel	<3.19	NA	NA	NA	NA	NA	<24.9	NA	<0.097
North Containment Area	Dike North	Water	<0.000411	<0.000464	<0.00000832	<0.00000439	<0.00000732	<0.000256	<0.0009	<0.000842	<0.0013
South Containment Area	Dike South	Water	<0.000205	<0.000464	<0.00000832	<0.00000439	0.0000329	<0.000256	<0.00045	<0.000842	0.0044 B
Hazardous Criteria		ı	0.7	0.13	0.02	0.008	0.008	0.13	0.5	3	5

Table 1
Gulfco Former AST Tank Farm
Tank Sample - RCI/Toxicity Data

Tank No.	Sample ID.	Physical Description	Lindane	Mercury	Methoxychlor	MEK mg/L	Nitrobenzene	Pentachlorophenol	Pyridine	J/b Selenium	Silver
			mg/L	I mg/L	mg/L	Ing/L	mg/L	mg/L	mg/L	mg/L	mg/L
Tank No. 2	TK-2-O TK-2-O TK-2-S	Aqueous Phase Organic Phase Solids- sand, debris, etc.	<0.00003 <0.00003 <0.00003	0.00004 0.00037 0.00014 B	NA <0.00032 <0.00032	13.4 9.77 30	<0.452 <0.0008 <0.0008	<1.33 <0.0037 <0.0037	<0.437 <0.0182 <0.0182	0.03 B <0.0046 <0.0046	<0.0006 <0.0006 <0.0006
Tank No. 4	TK-4-A	Oily Water	0.00035	0.00017 B	0.0018 J	0.011	<0.00362	<0.011	<0.00349	<0.0046	<0.0006
Tank No. 6	TK-6-S	Rust Solids	<0.00003	0.00013 B	<0.00032	<0.017	<0.0008	<0.0037	<0.0182	0.014 B	<0.0006
Tank No. 13	TK-13-O	Oily sludge	<0.00003	0.00012 B	<0.00032	<0.429	<0.0008	<0.0037	<0.0182	0.006 B	<0.0006
Tank No. 14	None	Empty (2 in. of rust solids)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tank No. 15	TK-15-O	Oily sludge	<0.00003	0.00039	<0.00032	0.085 J	<0.0008	<0.0037	<0.0182	0.0095 B	<0.0006
Tank No. 16	TK-16-O	Oily sludge	<0.00003	0.00011 B	<0.00032	0.367	<0.0008	<0.0037	<0.0182	0.013 B	<0.0006
Tank No. 17	TK-17-S	Rust solids	0.0185	0.00015 B	<0.00162	<0.017	<0.0008	<0.0037	<0.0182	<0.0046	<0.0006
Tank No. 18	TK-18-O	Light Organic Phase	<0.00556	<0.0048	<0.05816	<17.2	<0.1262	<0.5607	<2.74	0.88 B	<0.006
Tank No. 19	TK-19-O	Oily sludge	<0.00003	0.00008 B	<0.00032	<8.58	<0.0008	<0.0037	<0.0182	0.0064 B	<0.0006
Tank No. 21	TK-21-A	Oily water	<0.00003	0.00012 B	<0.00032	<17.2	<0.0008	<0.0037	<0.0182	<0.0046	<0.0006
Tank No. 22	TK-22-O	Oily sludge	<0.00003	0.00013 B	<0.00032	0.874	<0.0008	<0.0037	<0.0182	0.0067 B	<0.0006
Tank No. 23	TK-23-O (mg/kg)	Appears to be diesel	NA	0.011	NA	<6.25	NA	NA	NA	1.6B	<0.047
North Containment Area	Dike North	Water	<0.00000255	<0.00004	<0.00000214	<0.00217	<0.000362	<0.00106	<0.000349	0.0049 B	<0.0006
South Containment Area	Dike South	Water	<0.00000255	<0.00004	<0.00000214	<0.00109	<0.000362	<0.00106	<0.000349	<0.0046	<0.0006
Hazardous Criteria			0.4	0.2	10	200	2	100	5	1	5

Table 1
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Tank Sample - RCI/Toxicity Data

Tank No.	Sample ID.	Physical Description	Tetrachloroethylene	B 75 Toxaphene	B Trichloroethylene	3 2,4,5-Trichlorophenol	공 을 2,4,6-Trichlorophenol	B 2,4,5-TP (Silvex)	B Sprinyl Chloride
Tank No. 2	TK-2-O	Aqueous Phase	<0.768	NA	0.851 J	<0.508	<0.525	NA	<0.383
Talik No. 2	TK-2-O	Organic Phase	<0.023	<0.00025	1.52	<0.001	<0.0021	<0.0016	0.247 J
	TK-2-S	Solids- sand, debris, etc.	55.7	<0.00025	205	<0.001	<0.0021	<0.0016	<0.01
Tank No. 4	TK-4-A	Oily Water	<0.000768	<0.00275	0.00102 J	<0.00406	<0.00042	<0.00013	<0.000383
Tank No. 6	TK-6-S	Rust Solids	<0.00908	<0.00025	0.027 J	<0.001	<0.0021	<0.0016	<0.00356
Tank No. 13	TK-13-O	Oily sludge	47.7	<0.00025	2.98 J	<0.001	<0.0021	<0.0016	0.988 J
TATIK NO. 13	TK-13-0	Olly sludge	47.7	<0.00025	2.90 J	<0.001	<0.0021	<0.0016	0.966 3
Tank No. 14	None	Empty (2 in. of rust solids)	NA	NA	NA	NA	NA	NA	NA
Tank No. 15	TK-15-O	Oily sludge	<0.00908	<0.00025	<0.011	<0.001	<0.0021	<0.0016	<0.00356
Tank No. 16	TK-16-O	Oily sludge	<0.00908	<0.00025	<0.011	<0.001	<0.0021	<0.0016	<0.00356
Tank No. 17	TK-17-S	Rust solids	<0.00908	<0.00125	<0.011	<0.001	<0.0021	<0.0016	<0.00356
Turk 140. 17	TIC 17 G	Trade solids	40.00000	10.00120	40.011	40.001	10.0021	10.0010	10.00000
Tank No. 18	TK-18-O	Light Organic Phase	<9.08	<0.045	<10.8	<0.1552	<0.3149	<0.0016	<3.56
Tank No. 19	TK-19-O	Oily sludge	<4.54	<0.00025	<5.4	<0.001	<0.0021	<0.0016	<1.78
Tank No. 21	TK-21-A	Oily water	<9.08	<0.00025	<10.8	<0.001	<0.0021	<0.0016	<3.56
Tank No. 22	TK-22-O	Oily sludge	<0.00908	<0.00025	<0.011	<0.001	<0.0021	<0.0016	<0.00356
Talik No. 22	1K-22-0	Olly sludge	<0.00908	<0.00025	<0.011	<0.001	<0.0021	<0.0016	<0.00356
Tank No. 23	TK-23-O (mg/kg)	Appears to be diesel	<3.85	NA	<3.55	NA	NA	NA	<7.03
North Containment Area	Dike North	Water	0.00627 J	<0.000275	0.018	<0.000406	<0.00042	<0.00013	<0.000765
South Containment Area	Dika Sauth	Matar	<0.000700	<0.000275	<0.000702	<0.000400	<0.00040	<0.00040	<0.000000
South Containment Area	Dike South	Water	~0.000768	~0.000275	~0.000702	<0.000406	<0.00042	<0.00013	<0.000383
Hazardous Criteria			0.7	0.5	0.5	400	2	1	0.2

Table 1
Gulfco Former AST Tank Farm
Tank Sample - RCI/Toxicity Data

<b></b>	<del></del>	<del></del>	
Tank No.	Sample ID.	Physical Description	Comments
	TI		7.418
Tank No. 2	TK-2-O TK-2-O	Aqueous Phase Organic Phase	Total Data TCLP Data
	TK-2-S	Solids- sand, debris, etc.	TCLP Data
	1		
Tank No. 4	TK-4-A	Oily Water	Total Data
Tank No. 6	TK-6-S	Rust Solids	TCLP Data
Tank No. 13	TK-13-O	Oily sludge	TCLP Data
Tank 140. 13	11110-0	Ony studge	TOLI Data
Tank No. 14	None	Empty (2 in. of rust solids)	
Tank No. 15	TK-15-O	Oily sludge	TCLP Data
Tank No. 16	TK-16-O	Oily sludge	TCLP Data
Talik NO. 10	TK-10-0	Olly sludge	TOLF Data
Tank No. 17	TK-17-S	Rust solids	TCLP Data
Tank No. 18	TK-18-O	Light Organic Phase	TCLP Data
Torik No. 10	TV 40.0	Other Landson	TOLD Dele
Tank No. 19	TK-19-O	Oily sludge	TCLP Data
Tank No. 21	TK-21-A	Oily water	TCLP Data
Tank No. 22	TK-22-O	Oily sludge	TCLP Data
	=14.00.04.11.1		
Tank No. 23	TK-23-O (mg/kg)	Appears to be diesel	Total Data (mg/kg)
		-	
North Containment Area	Dike North	Water	Total Data
South Containment Area	Dike South	Water	Total Data
Hazardous Criteria			

TABLE 1. COMPARISON CRITERIA FOR AST TANK FARM CONTAINMENT AREA SOIL EXCAVATION¹

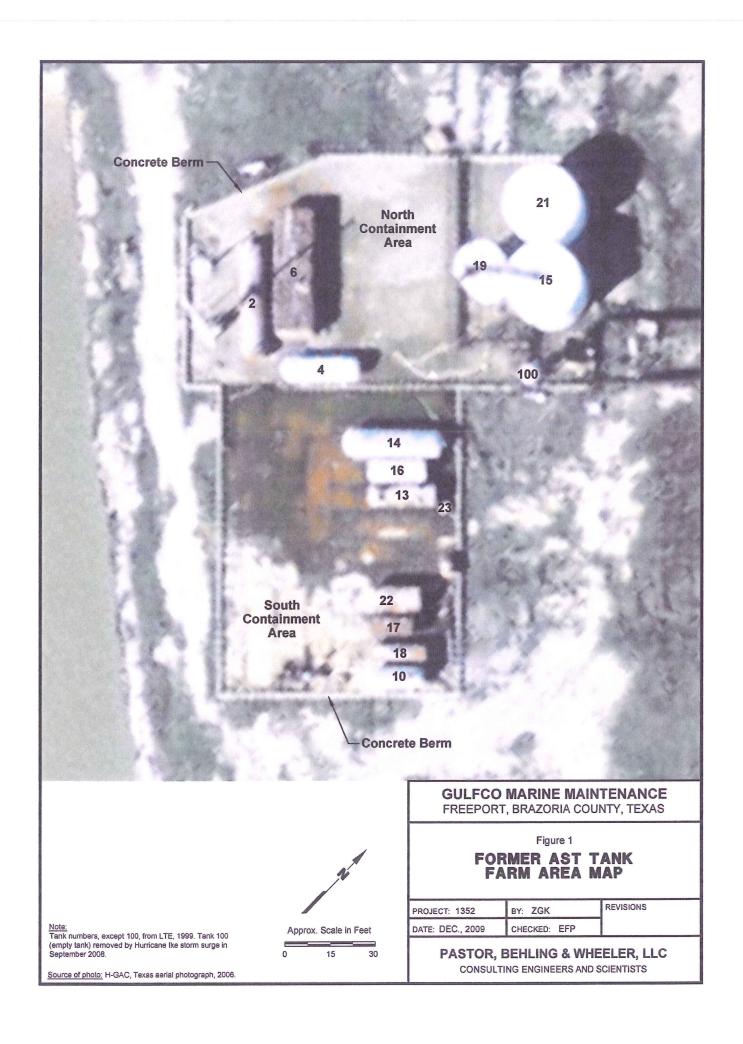
Chemicals of Interest	EPA Region 6 Soil Screening Criteria (2)	TotSoil _{Comb} (3)	Comparison Criteria ⁽⁴⁾
VOCs			1
1.1.1.2-Tetrachloroethane	7.6E+00	7.3E+01 ⁽⁵⁾	7.6E+00
	1.4E+03	5.4E+04 ⁽⁵⁾	1.4E+03
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane	9.7E-01	7.3E+00	9.7E-01
1,1,2-Trichloroethane	2.1E+00	1.9E+01	2.1E+00
1,1-Dichloroethane	2.3E+03	4.3E+03 ⁽⁵⁾	2.3E+03
		3.5E+03 ⁽⁵⁾	
1,1-Dichloroethene 1,1-Dichloropropene	4.7E+02	6.1E+01	4.7E+02 6.1E+01
1,2,3-Trichloropropane	3.4E-03	4.1E+00	3.4E-03
***		4.2E+03 ⁽⁵⁾	
1,2,4-Trichlorobenzene	2.6E+02		2.6E+02
1,2,4-Trimethylbenzene	1.9E+02	1.1E+02 ⁽⁵⁾	1.9E+02
1,2-Dibromo-3-chloropropane	2.2E+00	1.4E-01 ⁽⁵⁾	2.2E+00
1,2-Dibromoethane	7.0E-02	7.9E-01 ⁽⁵⁾	7.0E-02
1,2-Dichlorobenzene	3.7E+02	5.7E+02	3.7E+02
1,2-Dichloroethane	8.4E-01	1.1E+01	8.4E-01
1,2-Dichloropropane	8.5E-01	4.4E+01	8.5E-01
1,3,5-Trimethylbenzene	7.8E+01	8.3E+01	7.8E+01
1,3-Dichlorobenzene	1.5E+02	8.8E+01	8.8E+01
1,3-Dichloropropane 1,4-Dichlorobenzene	 9.1E-100	6.1E+01 1.2E+03	6.1E+01
2,2-Dichloropropane	8.1E+00	4.4E+01	8.1E+00 4.4E+01
2-Butanone	3.4E+04	7.3E+04	3.4E+04
2-Chloroethylvinyl ether	5.42104	3.3E+00	3.3E+00
2-Chlorotoluene	5.1E+02	2.5E+03	5.1E+02
2-Hexanone		7.9E+01	7.9E+01
4-Chlorotoluene		3.5E+00	3.5E+00
4-Isopropyltoluene		4.7E+03	4.7E+03
4-Methyl-2-pentanone	1.7E+04	2.8E+04	1.7E+04
Acetone	1.0E+05	8.1E+03	8.1E+03
Acrolein	3.8E-01	8.1E-01	3.8E-01
Acrylonitrile	5.5E-01	4.2E+00	5.5E-01
Benzene	1.6E+00	1.11E+02 ⁽⁵⁾	1.6E+00
Bromobenzene	1.2E+02	1.2E+02 ⁽⁵⁾	1.2E+02
Bromodichloromethane	2.6E+00	4.6E+02	2.6E+00
Bromoform	2.4E+02	6.0E+02	2.4E+02
Bromomethane	1.5E+01	5.3E+01	1.5E+01
Butanol	6.8E+04	3.1E+03	3.1E+03
Carbon disulfide	7.2E+02	7.2E+03	7.2E+02
Carbon tetrachloride	5.8E-01	1.9E+01	5.8E-01
Chlorobenzene	6.0E+02	5.4E+02 ⁽⁵⁾	6.0E+02
Chloroethane	7.2E+00	8.7E+04	7.2E+00
Chloroform	5.8E-01	1.3E+01	5.8E-01
Chloromethane	3.0E+00	1.6E+02	3.0E+00
cis-1,2-Dichloroethene cis-1,3-Dichloropropene	1.6E+02	4.7E+03 4.3E+01	1.6E+02 4.3E+01
Cyclohexane	6.8E+03	4.3E+01 4.2E+04	6.8E+03
Dibromochloromethane	2.6E+00	3.4E+02	2.6E+00
Dibromomethane	5.9E+02	1.9E+02	1.9E+02
Dichlorodifluoromethane	3.4E+02	4.3E+04	3.4E+02
Ethylbenzene	2.3E+02	1.0E+04	2.3E+02
Hexachlorobutadiene	2.5E+01	2.3E+01	2.3E+01
Isopropylbenzene (Cumene)	5.8E+02	6.3E+03	5.8E+02

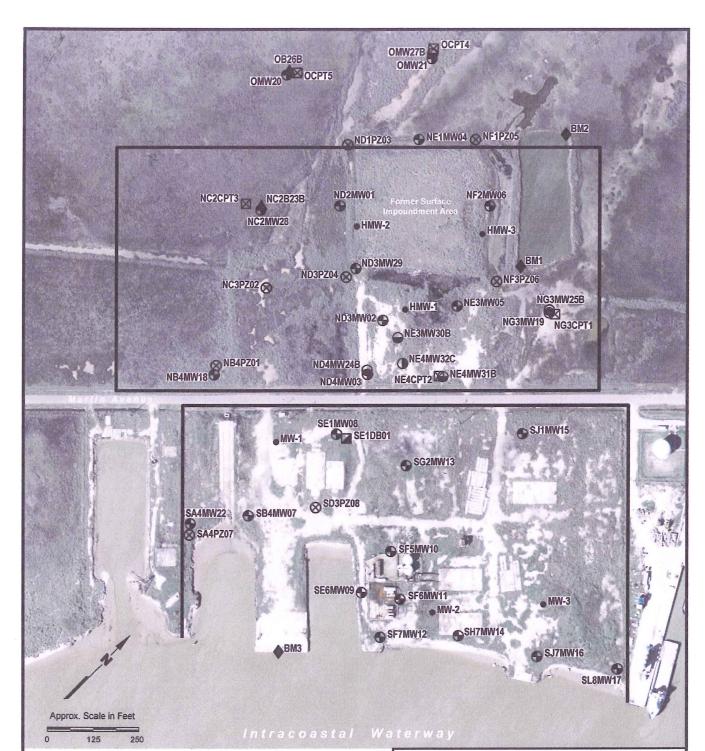
Chemicals of Interest	EPA Region 6 Soil Screening Criteria ⁽²⁾	TotSoil _{Comb} (3)	Comparison Criteria ⁽⁴⁾
Methyl acetate	1.0E+05	6.6E+03	6.6E+03
Methyl iodide		1.2E+02	1.2E+02
Methylcyclohexane	1.4E+02	3.3E+04	1.4E+02
Methylene chloride	2.2E+01	5.6E+02	2.2E+01
Naphthalene	2.1E+02	1.9E+02	1.9E+02
n-Butylbenzene	2.4E+02	4.0E+03	2.4E+02
n-Propylbenzene	2.4E+02	4.1E+03	2.4E+02
o-Xylene	2.8E+02	8.0E+03 ⁽⁵⁾	2.8E+02
sec-Butylbenzene	2.2E+02	3.7E+03	2.2E+02
Styrene	1.7E+03	7.8E+03 ⁽⁵⁾	1.7E+03
tert-Butyl methyl ether (MTBE)	4.1E+01	1.1E+03	4.1E+01
tert-Butylbenzene	3.9E+02	3.2E+03	3.9E+02
Tetrachloroethene	1.7E+00	3.3E+02 ⁽⁵⁾	1.7E+00
Toluene	5.2E+02	2.9E+04 ⁽⁵⁾	5.2E+02
trans-1,2-Dichloroethene	2.4E+02	6.42E+02 ⁽⁵⁾	2.4E+02
trans-1,3-Dichloropropene		6.1E+01	6.1E+01
trans-1,4-Dichloro-2-butene		2.9E-01	2.9E-01
Trichloroethene	1.0E-01	1.1E+02 ⁽⁵⁾	1.0E-01
Trichlorofluoromethane	1.4E+03	2.8E+04	1.4E+03
Trichlorotrifluoroethane	5.6E+03	3.3E+05	5.6E+03
Vinyl acetate	1.6E+03	2.2E+03	1.6E+03
Vinyl chloride	4.3E-01	1.3E+01 ⁽⁵⁾	4.3E-01
Xylene (total)	2.1E+02	6.5E+03 ⁽⁵⁾	2.1E+02
SVOCs	2.12		2.12
1,2Diphenylhydrazine/Azobenzen	2.4E+00	1.5E+02 ⁽⁵⁾	2.4E+00
2,4,5-Trichlorophenol	6.8E+04	1.2E+04	1.2E+04
2,4,6-Trichlorophenol	1.7E+02	6.81E+02 ⁽⁵⁾	1.7E+02
2,4-Dichlorophenol	2.1E+03	1.7E+03	1.7E+03
2,4-Dimethylphenol	1.4E+04	2.9E+03	2.9E+03
2,4-Dinitrophenol	1.4E+03	1.4E+03	1.4E+03
2,4-Dinitrotoluene	1.4E+03	2.1E+01	2.1E+01
2,6-Dinitrotoluene	6.8E+02	2.8E+01	2.8E+01
2-Chloronaphthalene	2.6E+04	5.0E+04	2.6E+04
2-Chlorophenol	2.6E+02	2.4E+03	2.6E+02
2-Methylnaphthalene		2.5E+03	2.5E+03
2-Nitroaniline	2.0E+03	2.9E+01 ⁽⁵⁾	2.0E+03
2-Nitrophenol		4.1E+02	4.1E+02
3,3'-Dichlorobenzidine	4.3E+00	4.2E+01	4.3E+00
3-Nitroaniline		1.6E+02	1.6E+02
4,6-Dinitro-2-methylphenol		2.26E+01 ⁽⁵⁾	0.0E+00
4-Bromophenyl phenyl ether		1.1E+00	1.1E+00
4-Chloro-3-methylphenol		3.0E+03	3.0E+03
4-Chloroaniline	2.7E+03	9.5E+01 ⁽⁵⁾	2.7E+03
4-Chlorophenyl phenyl ether		8.0E-01	8.0E-01
4-Nitroaniline		6.6E+02 ⁽⁵⁾	0.0E+00
4-Nitrophenol	5.5E+03	1.1E+02	1.1E+02
Acenaphthene	3.3E+04	3.7E+04	3.3E+04
Acenaphthylene		3.7E+04	3.7E+04
Acetophenone	1.7E+03	3.3E+03	1.7E+03
Aniline	3.4E+02	9.3E+01	9.3E+01
Anthracene	1.0E+05	1.9E+05	1.0E+05
Atrazine (Aatrex)	8.6E+00	8.6E+01	8.6E+00

Chemicals of Interest	EPA Region 6 Soil Screening Criteria ⁽²⁾	TotSoil _{Comb} (3)	Comparison Criteria ⁽⁴⁾
Benzidine	8.3E-03	3.3E-02	8.3E-03
Benzo(a)anthracene	2.3E+00	2.4E+01	2.3E+00
Benzo(a)pyrene	2.3E-01	2.4E+00	2.3E-01
Benzo(b)fluoranthene	2.3E+00	2.4E+01	2.3E+00
Benzo(g,h,i)perylene		1.9E+04	1.9E+04
Benzo(k)fluoranthene	2.3E+01	2.4E+02	2.3E+01
Benzoic acid	1.0E+05	5.0E+02	5.0E+02
Benzyl alcohol	1.0E+05	6.2E+03	6.2E+03
Biphenyl	2.6E+04	1.9E+02	1.9E+02
Bis(2-Chloroethoxy)methane		6.2E+00	6.2E+00
Bis(2-Chloroethyl)ether	6.2E-01	2.8E+00	6.2E-01
Bis(2-Chloroisopropyl)ether		1.1E+02	1.1E+02
Bis(2-Ethylhexyl)phthalate	1.4E+02	5.6E+02	1.4E+02
Butyl benzyl phthalate	2.4E+02	1.0E+04 ⁽⁵⁾	2.4E+02
Caprolactam	1.0E+05	2.3E+02	2.3E+02
Carbazole	9.6E+01	9.5E+02	9.6E+01
Chrysene	2.3E+02	2.4E+03	2.3E+02
Dibenz(a,h)anthracene	2.3E-01	2.4E+00	2.3E-01
Dibenzofuran	1.7E+03	2.7E+03	1.7E+03
Diethyl phthalate	1.0E+05	2.0E+03	2.0E+03
Dimethyl phthalate	1.0E+05	9.3E+02	9.3E+02
Di-n-butyl phthalate	6.8E+04	1.6E+04	1.6E+04
Di-n-octyl phthalate	2.7E+04	1.3E+04 ⁽⁵⁾	2.7E+04
Fluoranthene	2.4E+04	2.5E+04	2.4E+04
Fluorene	2.6E+04	2.5E+04	2.5E+04
Hexachlorobenzene	1.2E+00	6.9E+00	1.2E+00
Hexachlorocyclopentadiene	4.1E+03	1.0E+01	1.0E+01
Hexachloroethane	1.4E+02	5.2E+02	1.4E+02
Indeno(1,2,3-cd)pyrene	2.3E+00	2.4E+01	2.3E+00
Isophorone	2.0E+03	1.9E+03	1.9E+03
Nitrobenzene	1.1E+02	5.7E+01 ⁽⁵⁾	1.1E+02
n-Nitrosodimethylamine	3.8E-02	1.3E-01	3.8E-02
n-Nitrosodi-n-propylamine	2.7E-01	1.4E+00	2.7E-01
n-Nitrosodiphenylamine	3.9E+02	1.9E+03	3.9E+02
o-Cresol	3.4E+04	1.9E+03	1.9E+03
Pentachlorophenol	1.0E+01	1.1E+02	1.0E+01
Phenanthrene		1.9E+04	1.9E+04
Phenol	1.0E+05	2.4E+03	2.4E+03
Pyrene	3.2E+04	1.9E+04	1.9E+04
Pvridine	6.8E+02	1.4E+02	1.4E+02

### Notes:

- All values in mg/kg.
   From EPA's "Region 6 Human Health Medium-Specific Screening Levels 2004-2005". Industrial Outdoor Worker.
- $3. \ ^{Tot}Soil_{Comb}\ PCL = \overline{TCEQ}\ Protective\ Concentration\ Level\ for\ 30\ acre\ source\ area\ Commercial/Industrial\ total\ soil\ combined\ pathway$ (includes inhalation; ingestion; dermal pathways).
- 4. The lower value of the EPA Region 6 Soil Screening Criteria and the  $^{\text{Tot}}$ Soil $_{\text{Comb}}$  value.
- 5. Updated from Table 15 of RI/FS Workplan to reflect changes in toxicity data from 2005 to 2009 indicated in TCEQ PCL tables.





## **EXPLANATION**

- Gulfco Marine Maintenance Site Boundary (approximate)
- Monitoring Well Location Zone A
- Staff Gauge
- Previous Monitoring Well
- Monitoring Well Location Zone B
- Soil Boring Location Zone B
- Monitoring Well Location Zone C
- CPT Piezometer Location Zone C
- Deep Soil Boring Location

GULFCO MARINE MAINTENANCE FREEPORT, BRAZORIA COUNTY, TEXAS

Figure 3

# MONITORING WELL LOCATIONS

PROJECT: 1352 BY: ZGK REVISIONS

DATE: MAY, 2009 CHECKED: EFP

PASTOR, BEHLING & WHEELER, LLC CONSULTING ENGINEERS AND SCIENTISTS

Source of photo: H-GAC, Texas aerial photograph, 2006.

	Sample			Extent Evaluation Comparison
Sample Location	Date	Chemical of Interest	Concentration (mg/L)	Value ⁽¹⁾ (mg/L)
		Chromium	0.14J	0.1
		Endosulfan II	0.000021J	0.000009
NB4PZ01	8/3/2006	Nickel	0.14J	0.013
		Silver	0.0088J	0.00019
NG2D702	0/2/2006	Chromium	0.16	0.1
NC3PZ02	8/2/2006	Silver	0.017J	0.00019
		Benzene	0.657	0.11
ND1PZ03	8/1-2/2006	Endosulfan II	0.0000103J	0.000009
NDIPZ03	8/1-2/2006	Silver	0.0099J	0.00019
		Vinyl chloride	1.22	0.2
		1,1,1-Trichloroethane	15.4	1.6
		1,1-Dichloroethene	23.5	0.7
		1,2,3-Trichloropropane	25.5J-	0.029
		1,2-Dichloroethane	58.8	0.5
		1,2-Dichloropropane	3.45J	0.5
	8/3/2006	4,4'-DDE	0.00027	0.00014
		Benzene	5.39J	0.11
		Chromium	0.15J	0.1
		cis-1,2-Dichloroethene	13.4	7
		Dieldrin	0.0000264J	0.000002
		gamma-BHC (Lindane)	0.00016J	0.000016
		Methylene chloride	300	0.5
		Silver	0.012J	0.00019
NIDON (IVIO)		Tetrachloroethene	20.5	0.5
ND2MW01		Trichloroethene	84	0.5
		1,1-Dichloroethene	2.92	0.7
		1,2-Dichloroethene(Total)	19.2	0.68
	11/8/2007	Benzene	0.518J	0.11
		cis-1,2-Dichloroethene	19.2	7
		Vinyl chloride	0.331J	0.2
		1,1-Dichloroethene	2.35	0.7
		1,2,3-Trichloropropane	0.374J	0.029
		1,2-Dichloroethane	1.25	0.5
	(/19/2009	1,2-Dichloroethene(Total)	12.5	0.68
	6/18/2008	Benzene	0.375J	0.11
		cis-1,2-Dichloroethene	12.5	7
		Methylene chloride	2.88	0.5
		Vinyl chloride	0.978J	0.2

	Sample			Extent Evaluation Comparison
Sample Location	Date	Chemical of Interest	Concentration (mg/L)	Value ⁽¹⁾ (mg/L)
		1,1,1-Trichloroethane	2.25	1.6
		1,2,3-Trichloropropane	0.497J-	0.029
		Anthracene	0.000832J	0.00018
	0/2/2006	Chromium	0.15J	0.1
	8/3/2006	gamma-BHC (Lindane)	0.00019J	0.000016
		Silver	0.0063J	0.00019
		Tetrachloroethene	1.92	0.5
		Trichloroethene	6.04	0.5
		1,1,1-Trichloroethane	14	1.6
		1,2,3-Trichloropropane	1.57	0.029
		1,2-Dichloroethene(Total)	9.37	0.68
ND3MW02	11/8/2007	Benzene	0.158J	0.11
		cis-1,2-Dichloroethene	9.37	7
		Tetrachloroethene	2.1	0.5
		Trichloroethene	17.7	0.5
		1,1,1-Trichloroethane	42	1.6
		1,1-Dichloroethene	0.975J	0.7
		1,2,3-Trichloropropane	3.86J	0.029
	6/18/2008	1,2-Dichloroethene(Total)	13.6	0.68
		cis-1,2-Dichloroethene	13.6	7
		Tetrachloroethene	34.8	0.5
		Toluene	0.691J	0.48
		Trichloroethene	76	0.5
		1,1,1-Trichloroethane	156	1.6
		1,2,3-Trichloropropane	44.3J	0.029
		1,2-Dichloroethane	328	0.5
	6/5/2007	Endosulfan II	0.00012J	0.000009
	WORN SHIPS COME 27 104-100	gamma-BHC (Lindane)	0.00153	0.000016
		Methylene chloride	1230	0.5
		Trichloroethene	61.2J	0.5
		1,1,1-Trichloroethane	195	1.6
		1,1-Dichloroethene	22Ј	0.7
	11/0/2007	1,2,3-Trichloropropane	53.1J	0.029
	11/8/2007	1,2-Dichloroethane	292	0.5
ND3MW29		Methylene chloride	1100	0.5
		Trichloroethene	69.4J	0.5
		1,1,1-Trichloroethane	234	1.6
		1,1-Dichloroethene	21.3J	0.7
		1,2,3-Trichloropropane	44.4J	0.029
		1,2-Dichloroethane	347	0.5
	6/10/2000	1,2-Dichloroethene(Total)	24.5J	0.68
	6/18/2008	Benzene	5.92J	0.11
		cis-1,2-Dichloroethene	24.5J	7
		Methylene chloride	1100	0.5
		Tetrachloroethene	12.9J	0.5
		Trichloroethene	135	0.5

	Sample			Extent Evaluation Comparison
Sample Location	Date	Chemical of Interest	Concentration (mg/L)	Value ⁽¹⁾ (mg/L)
		1,1,1-Trichloroethane	62.7	1.6
		1,1-Dichloroethene	29.2	0.7
		1,2,3-Trichloropropane	28.2	0.029
		1,2-Dichloropropane	3.36J	0.5
		Benzene	8.24J	0.11
		Carbon tetrachloride	7.58J	0.5
ND3PZ04	7/31/2006	cis-1,2-Dichloroethene	124	7
		Heptachlor epoxide	0.000025	0.0000036
		Silver	0.005J	0.00019
		Tetrachloroethene	7.86J	0.5
		Toluene	4.05J	0.48
		Trichloroethene	31.7	0.5
		Vinyl chloride	5.09J	0.2
ND4MW03	8/2/2006	Silver	0.013	0.00019
		Chromium	0.11J	0.1
NE1MW04	8/3/2006	Endosulfan II	0.0000138J	0.000009
		Silver	0.014J	0.00019
		Anthracene	0.00138J	0.00018
		Ethylbenzene	0.74	0.25
	8/2/2006	Naphthalene	0.322	0.13
NE3MW05		Phenanthrene	0.00638	0.0046
INESIM WUS		Pyrene	0.000517J	0.00024
		Silver	0.001J	0.00019
	11/7/2007	Ethylbenzene	0.273	0.25
	11///2007	Naphthalene	0.243	0.13
		Chromium	0.13J	0.11
NF1PZ05	8/3/2006	Endosulfan II	0.0000148J	0.000009
		Silver	0.0085J	0.00019
		1,2,3-Trichloropropane	0.214	0.029
		Endosulfan sulfate	0.0000156J	0.000009
NF2MW06	8/3/2006	Methylene chloride	0.944	0.5
		Silver	0.0032J	0.00019
		Trichloroethene	0.506	0.5
NF3PZ06	8/1/2006	Nickel	0.084	0.013
111 31 2.00	0/1/2000	Silver	0.011J	0.00019
		Chromium	0.14J	0.1
SA4PZ07	8/3/2006	Endosulfan II	0.0000309J	0.000009
5A41 207	0/3/2000	Nickel	0.022J	0.013
		Silver	0.016J	0.00019
SB4MW07	8/1/2006	Silver	0.03J	0.00019

Sample Location	Sample Date	Chemical of Interest	Concentration (mg/L)	Extent Evaluation Comparison Value ⁽¹⁾ (mg/L)
SD3PZ08	7/31/2006	Chromium	0.15	0.1
3D3FZ08	7/31/2000	Silver	0.012J	0.00019
SE1MW08	8/2/2006	Silver	0.011	0.00019
SE6MW09	7/31/2006	Silver	0.0024J	0.00019
SF5MW10	8/1/2006	gamma-BHC (Lindane)	0.000024J	0.000016
3F3WW 10	6/4/2007	gamma-BHC (Lindane)	0.000042J	0.000016
SF6MW11	7/31/2006	Silver	0.0099J	0.00019
SF7MW12	7/31/2006	Silver	0.0044J	0.00019
SG2MW13	8/1/2006	Silver	0.015J	0.00019
SH7MW14	7/31/2006	Silver	0.0028J	0.00019
		Endosulfan sulfate	0.000104	0.000009
SJ1MW15	8/2/2006	Heptachlor epoxide	0.0000201J	0.000036
		Silver	0.0088	0.00019
SJ7MW16	7/31/2006	Silver	0.0048J	0.00019
SL8MW17	8/3/2006	Silver	0.028J	0.00019

## Notes:

- (1) Extent Evaluation Comparison Values from Table 23.
- (2) Data qualifiers: J = estimated value. J- = estimated value, biased low.

# APPENDIX H LABORATORY ANALYTICAL AND VALIDATION REPORTS

# **ANALYTICAL RESULTS**

**PERFORMED BY** 

# **GULF COAST ANALYTICAL LABORATORIES, INC.**

7979 GSRI Avenue Baton Rouge, LA 70820

**Report Date** 01/03/2011

**GCAL Report** 210123108



**Deliver To** Pastor, Behling, Wheeler 2201 Double Creek Drive Round Rock, TX 78664 512-671-3434

Attn Eric Pastor

**Project** Gulfco Marine Maintenance Site

## CASE NARRATIVE

Client: Pastor, Behling, & Wheeler Report: 210123108

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

## **VOLATILES MASS SPECTROMETRY**

In the SW-846 8260B analysis, samples 21012310802 (N. CONTAINMENT(NW)) and 21012310803 (N. CONTAINMENT(NE)) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument. The dilutions are reflected in elevated detection limits.

# **Laboratory Endorsement**

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

### **Common Abbreviations Utilized in this Report**

ND Indicates the result was Not Detected at the specified RDL DO Indicates the result was Diluted Out MΙ Indicates the result was subject to Matrix Interference Indicates the result was Too Numerous To Count TNTC **SUBC** Indicates the analysis was Sub-Contracted FLD Indicates the analysis was performed in the Field PQL **Practical Quantitation Limit** MDL Method Detection Limit RDL Reporting Detection Limit

### **Reporting Flags Utilized in this Report**

J Indicates an estimated value

00:00 Reported as a time equivalent to 12:00 AM

- **U** Indicates the compound was analyzed for but not detected
- B (ORGANICS) Indicates the analyte was detected in the associated Method Blank
- **B** (INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues	
Technical Director	
<b>GCAL REPORT</b> 210123108	
THIS REPORT CONTAINS	PAGES.

# Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21012310801	S. CONTAINMENT	Water	12/30/2010 13:25	12/31/2010 08:50
21012310802	N. CONTAINMENT(NW)	Water	12/30/2010 13:45	12/31/2010 08:50
21012310803	N. CONTAINMENT(NE)	Water	12/30/2010 14:05	12/31/2010 08:50
21012310804	TRIP BLANK	Water	12/30/2010 14:10	12/31/2010 08:50

# Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Red	eive Date/Time	
21012310801	S. CONTAINMENT	Water	12/30/2010 13:25	12/3	31/2010 08:50	
SW-846 82	60B					
CAS#	Parameter		Result	RDL	MDL	Units
71-43-2	Benzene		5.66	5	0.054	ug/L
67-66-3	Chloroform		1.54J	5	0.057	ug/L
127-18-4	Tetrachloroethene		10.7	5	0.121	ug/L
79-01-6	Trichloroethene		11.1	5	0.062	ug/L
GCAL ID	Client ID	Matrix	Collect Date/Time	Red	eive Date/Time	
21012310802	N. CONTAINMENT(NW)	Water	12/30/2010 13:45	12/3	81/2010 08:50	
SW-846 82	60B					
CAS#	Parameter		Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane		7290	250	4.30	ug/L
71-43-2	Benzene		2000	250	2.71	ug/L
67-66-3	Chloroform		5290	250	2.83	ug/L
127-18-4	Tetrachloroethene		252	250	6.05	ug/L
79-01-6	Trichloroethene		1930	250	3.09	ug/L
GCAL ID	Client ID	Matrix	Collect Date/Time	Red	eive Date/Time	
21012310803	N. CONTAINMENT(NE)	Water	12/30/2010 14:05	12/3	31/2010 08:50	
SW-846 82	60B					
CAS#	Parameter		Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane		580	500	8.60	ug/L
71-43-2	Benzene		137J	500	5.42	ug/L
67-66-3	Chloroform		8660	500	5.65	ug/L
127-18-4	Tetrachloroethene		225J	500	12.1	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21012310801	S. CONTAINMENT	Water	12/30/2010 13:25	12/31/2010 08:50

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 12/31/2010 19:18	<b>By</b> RJU	Analytical Batc 448261	h
CAS#	Parameter		Result	RDL	1100	MDL	Units
107-06-2	1,2-Dichloroethane		5U	5		0.086	ug/L
71-43-2	Benzene		5.66	5		0.054	ug/L
67-66-3	Chloroform		1.54J	5		0.057	ug/L
127-18-4	Tetrachloroethene		10.7	5		0.121	ug/L
79-01-6	Trichloroethene		11.1	5		0.062	ug/L
75-01-4	Vinyl chloride		5U	5		0.093	ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Reco	very Re	c Limits
460-00-4	4-Bromofluorobenzene	50	50.8	ug/L		102	78 - 130
1868-53-7	Dibromofluoromethane	50	51.2	ug/L		102	77 - 127
2037-26-5	Toluene d8	50	51.2	ug/L		102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	51.9	ug/L		104	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21012310802	N. CONTAINMENT(NW)	Water	12/30/2010 13:45	12/31/2010 08:50

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	Ву	Analytical Batc	h
			50	12/31/2010 19:39	RJU	448261	
CAS#	Parameter		Result	RDL		MDL	Units
107-06-2	1,2-Dichloroethane		7290	250		4.30	ug/L
71-43-2	Benzene		2000	250		2.71	ug/L
67-66-3	Chloroform		5290	250		2.83	ug/L
127-18-4	Tetrachloroethene		252	250		6.05	ug/L
79-01-6	Trichloroethene		1930	250		3.09	ug/L
75-01-4	Vinyl chloride		250U	250		4.65	ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Rec	overy Re	c Limits
460-00-4	4-Bromofluorobenzene	2500	2590	ug/L		104	78 - 130
1868-53-7	Dibromofluoromethane	2500	2450	ug/L		98	77 - 127
2037-26-5	Toluene d8	2500	2630	ug/L		105	76 - 134
17060-07-0	1,2-Dichloroethane-d4	2500	2520	ug/L		101	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21012310803	N. CONTAINMENT(NE)	Water	12/30/2010 14:05	12/31/2010 08:50

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	Ву	Analytical I	Batch
			100	12/31/2010 20:00	RJU	448261	
CAS#	Parameter		Result	RDL		MDL	Units
107-06-2	1,2-Dichloroethane		580	500		8.60	ug/L
71-43-2	Benzene		137J	500		5.42	ug/L
67-66-3	Chloroform		8660	500		5.65	ug/L
127-18-4	Tetrachloroethene		225J	500		12.1	ug/L
79-01-6	Trichloroethene		500U	500		6.18	ug/L
75-01-4	Vinyl chloride		500U	500		9.30	ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Reco	very	Rec Limits
460-00-4	4-Bromofluorobenzene	5000	5120	ug/L		102	78 - 130
1868-53-7	Dibromofluoromethane	5000	5250	ug/L		105	77 - 127
2037-26-5	Toluene d8	5000	5180	ug/L		104	76 - 134
17060-07-0	1,2-Dichloroethane-d4	5000	5150	ug/L		103	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21012310804	TRIP BLANK	Water	12/30/2010 14:10	12/31/2010 08:50

Prep Date	Prep Batch	Prep Method	<b>Dilution</b> 1	<b>Analyzed</b> 12/31/2010 18:58	By Analy RJU 44826	rtical Batch
CAS#	Parameter		Result	RDL	MDL	_ Units
107-06-2	1,2-Dichloroethane		5U	5	0.08	6 ug/L
71-43-2	Benzene		5U	5	0.05	4 ug/L
67-66-3	Chloroform		5U	5	0.05	7 ug/L
127-18-4	Tetrachloroethene		5U	5	0.12	1 ug/L
79-01-6	Trichloroethene		5U	5	0.06	2 ug/L
75-01-4	Vinyl chloride		5U	5	0.09	3 ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.9	ug/L	96	78 - 130
1868-53-7	Dibromofluoromethane	50	49.1	ug/L	98	77 - 127
2037-26-5	Toluene d8	50	52.7	ug/L	105	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.3	ug/L	101	71 - 127

# GC/MS Volatiles Quality Control Summary

Analytical Ba	atch 448261	Client ID	MB448261			LCS448261			LCSD448261			
Prep Ba	atch N/A	GCAL ID	909344			909345			909346			
		Sample Type	Method Blank			LCS			LCSD			
		<b>Analytical Date</b>	12/31/2010 17:55			12/31/2010 16:44			12/31/2010 17:05			
		Matrix	Water			Water			Water			
	SW-846 8260B			ug/L <b>RDL</b>	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
67-66-3	Chloroform		5U	5	50.0	46.2	92	75 - 122	45.7	91	1	30
107-06-2	1,2-Dichloroeth	ane	5U	5	50.0	45.1	90	71 - 129	44.8	90	0.7	30
127-18-4	Tetrachloroethe	ene	5U	5	50.0	49.6	99	68 - 128	49.4	99	0.4	30
75-01-4	Vinyl chloride		5U	5	50.0	49.1	98	68 - 132	48.9	98	0.4	30
75-35-4	1,1-Dichloroeth	ene	5U	5	50.0	49.0	98	69 - 129	48.3	97	1	20
71-43-2	Benzene		5U	5	50.0	48.5	97	70 - 129	48.2	96	0.6	20
79-01-6	Trichloroethene	)	5U	5	50.0	47.3	95	76 - 129	47.7	95	0.8	20
108-88-3	Toluene		5U	5	50.0	47.5	95	72 - 120	48.2	96	1	20
108-90-7	Chlorobenzene		5U	5	50.0	47.9	96	74 - 123	47.7	95	0.4	20
Surrogate												
460-00-4	4-Bromofluorob	enzene	47.8	96	50	49.7	99	78 - 130	49.4	99		
1868-53-7	Dibromofluoron	nethane	48.7	97	50	49.3	99	77 - 127	49.3	99		
2037-26-5	Toluene d8		52.5	105	50	49.6	99	76 - 134	50.1	100		
17060-07-0	1,2-Dichloroeth	ane-d4	49.1	98	50	48.9	98	71 - 127	48.9	98		

# CHAIN OF CUSTODY RECORD

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	ne: <u>(5/7</u>			34c	16	Phone:				\	2	2)	5	4	الج	:							
1.0. N	umber 47 f ed By:				oct Name/Number	<u> </u>			_	Ben Zene	Noroform	dichlora	chlorach	rach (oron	up chibr						·		Lab ID
latrix ¹	Date	Time (2400)	C o m p	G r a b	Sample Description	1		Preservativ	es Con- tainers	1 7	V	1,2	بخ	Tes	Š				Ren	narks:			
M	12/30/	(325)		X	5. Conta	inment		HCL	3_	X	X	X	X	X	X								
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# **ANALYTICAL RESULTS**

**PERFORMED BY** 

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue
Baton Rouge, LA 70820

**Report Date** 01/18/2011

GCAL Report 211011405

**Deliver To** Pastor, Behling, Wheeler 2201 Double Creek Drive Round Rock, TX 78664 512-671-3434

Attn Eric Pastor

**Project** GULFCO AST Removal

### CASE NARRATIVE

Client: Pastor, Behling, Wheeler Report: 211011405

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

## **VOLATILES MASS SPECTROMETRY**

In the SW-846 8260B analysis, samples 21101140501 (T-15-F), 21101140502 (T-15-F MS), 21101140503 (T-15-F MSD), 21101140504 (T-21-F), 21101140505 (NC-0-0.3), 21101140506 (T-2-WEST), 21101140507 (T-6-FLOOR), 21101140508 (T-6-EAST), 21101140509 (T-6-SOUTH), 21101140510 (T-6-NORTH), 21101140511 (BLIND DUP), 21101140512 (SC-W), and 21101140513 (SC-E) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument. The dilutions are reflected in elevated detection limits.

In the SW-846 8260B analysis for analytical batch 449013, the MS/MSD exhibited recovery and RPD failures. All LCS/LCSD recoveries and RPDs are acceptable.

## SEMI-VOLATILES MASS SPECTROMETRY

In the SW-846 8270C analysis, sample 21101140504 (T-21-F) had to be diluted to bracket the concentration of a target compound within the calibration range of the instrument. The recoveries for the surrogates are reported as D, diluted out for the diluted run performed on this sample.

In the SW-846 8270C analysis of prep batch 448916, the MS/MSD and LCS/LCSD recoveries are below the lower control limit for Benzaldehyde.. The LCS/LCSD RPD is above the control limit for Aniline. These are poor performing compounds so no corrective action was taken.

In the SW-846 8270C analysis for prep batch 448924, the LCS/LCSD exhibited recoveries above the established control limits for Aniline and Benzaldehyde. These are poor performing compounds that were not detected in the associated samples.

# **Laboratory Endorsement**

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

### Common Abbreviations Utilized in this Report

ND Indicates the result was Not Detected at the specified RDL

**DO** Indicates the result was Diluted Out

MI Indicates the result was subject to Matrix Interference TNTC Indicates the result was Too Numerous To Count

SUBC Indicates the analysis was Sub-Contracted

FLD Indicates the analysis was performed in the Field

PQL Practical Quantitation Limit
MDL Method Detection Limit
RDL Reporting Detection Limit

00:00 Reported as a time equivalent to 12:00 AM

## Reporting Flags Utilized in this Report

J Indicates an estimated value

U Indicates the compound was analyzed for but not detected

B (ORGANICS) Indicates the analyte was detected in the associated Method Blank

**B** (INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues / Technical Director

**GCAL REPORT** 211011405

THIS REPORT CONTAINS 277 PAGES.

# Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21101140501	T-15-F	Solid	01/13/2011 14:00	01/14/2011 09:15
21101140502	T-15-F MS	Solid	01/13/2011 14:00	01/14/2011 09:15
21101140503	T-15-F MSD	Solid	01/13/2011 14:00	01/14/2011 09:15
21101140504	T-21-F	Solid	01/13/2011 14:45	01/14/2011 09:15
21101140505	NC-0-0.3	Solid	01/13/2011 14:55	01/14/2011 09:15
21101140506	T-2-WEST	Solid	01/13/2011 15:05	01/14/2011 09:15
21101140507	T-6-FLOOR	Solid	01/13/2011 15:35	01/14/2011 09:15
21101140508	T-6-EAST	Solid	01/13/2011 15:55	01/14/2011 09:15
21101140509	T-6-SOUTH	Solid	01/13/2011 16:15	01/14/2011 09:15
21101140510	T-6-NORTH	Solid	01/13/2011 16:25	01/14/2011 09:15
21101140511	BLIND DUP	Solid	01/13/2011 00:00	01/14/2011 09:15
21101140512	SC-W	Solid	01/13/2011 16:45	01/14/2011 09:15
21101140513	SC-E	Solid	01/13/2011 16:55	01/14/2011 09:15
21101140514	EQUIPMENT BLANK	Water	01/13/2011 17:10	01/14/2011 09:15
21101140515	TRIP BLANK 1	Water	01/13/2011 17:15	01/14/2011 09:15
21101140516	TRIP BLANK 2	Water	01/13/2011 17:20	01/14/2011 09:15

SAMPLE NO.

T-15-F

Lab Name: G0	CAL Contract:								
_ab Code: LA(					405				
Matrix: (soil/wate				··········					
Sample wt/vol:	6.18 (g/ml) g	Lab Sample ID:	2110114050	1					
_evel: (low/med)	LOW	Lab File ID: 211	***************************************		,				
		,	~qaaaaaaaaaaaaaaaa						
% Moisture: not	······································	Date Collected: 01/13/11 Time: 1400							
GC Column: R	TX-VMS-30 ID: .25 (mm	Date Received:	01/14/11		***************************************				
nstrument ID:	MSV11	Date Analyzed:	01/16/11	Time: 11	18				
Soil Extract Volu	ıme: ( µL	Dilution Factor:	50	Analyst:	RJU				
				Analytical	Batch: 449013				
Joil Allquot Volu	ime: ( µL				Daton. 443013				
CONCENTRA	TION UNITS: mg/kg	Analytical Method	I: SW-846 8	3260					
CAS NO.	COMPOUND	RESULT	Q	MDL	RL				
630-20-6	1,1,1,2-Tetrachloroethane	0.241	U	0.00507	0.241				
71-55-6	1,1,1-Trichloroethane	0.241	U	0.011	0.241				
79-34-5	1,1,2,2-Tetrachloroethane	0.241	U	0.013	0.241				
79-00-5	1,1,2-Trichloroethane	0.241	U	0.011	0.241				
75-34-3	1,1-Dichloroethane	0.241	U	0.016	0.241				
75-35-4	1,1-Dichloroethene	0.241	U	0.032	0.241				
563-58-6	1,1-Dichloropropene	0.241	U	0.010	0.241				
96-18-4	1,2,3-Trichloropropane	0.097	U	0.017	0.097				
120-82-1	1,2,4-Trichlorobenzene	0.241	U	0.015	0.241				
95-63-6	1,2,4-Trimethylbenzene	0.241	U	0.014	0.241				
96-12-8	1,2-Dibromo-3-chloropropane	0.241	U	0.039	0.241				
106-93-4	1,2-Dibromoethane	0.241	U	0.012	0.241				
95-50-1	1,2-Dichlorobenzene	0.241	U	0.016	0.241				
107-06-2	1,2-Dichloroethane	0.241	U	0.00633	0.241				
78-87-5	1,2-Dichloropropane	0.241	U	0.00522	0.241				
108-67-8	1,3,5-Trimethylbenzene	0.241	U	0.012	0.241				
541-73-1	1,3-Dichlorobenzene	0.241	U	0.015	0.241				
142-28-9	1,3-Dichloropropane	0.241	U	0.00865	0.241				
106-46-7	1,4-Dichlorobenzene	0.241	U	0.020	0.241				
594-20-7	2,2-Dichloropropane	0.241	U	0.056	0.241				
78-93-3	2-Butanone	0.241	Ų	0.029	0.241				
110-75-8	2-Chloroethylvinyl ether	0.241	U	0.011	0.241				
95-49-8	2-Chlorotoluene	0.241	U	0.013	0.241				
591-78-6	2-Hexanone	0.241	U	0.016	0.241				
106-43-4	4-Chlorotoluene	0.241	U	0.015	0.241				
99-87-6	4-Isopropyltoluene	0.241	U	0.013	0.241				
108-10-1	4-Methyl-2-pentanone	0.241	U	0.016	0.241				
67-64-1	Acetone	1.21	U	0.051	1.21				
107-02-8	Acrolein	1.21	U	0.097	1.21				
107-13-1	Acrylonitrile	1.21	U	0.052	1.21				
71-43-2	Benzene	0.241	Ų	0.00662	0.241				

SAMPLE NO.

T-15-F	
	1

### Analytical Method:   SAS No.   SDG No.   211011405   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Method:   Solid   ### Analytical Me	Lab Name: GC	AL Contract:				
Matrix: (soil/water)   Soild   Sample wt/vol:   6.18   (g/ml)   g	Lab Code: LA02	24 Case No.:	SAS No.:	;	SDG No.: 2110114	405
evei: (low/med) LOW Lab File ID: 2110116/a8965 6 Molisture: not dec. 16.2 Date Collected: 01/13/11 Time: 1400 3C Column: RTX-VMS-30 ID: .25 (mm Date Received: 01/14/11 Time: 1400 3C Column: RTX-VMS-30 ID: .25 (mm Date Received: 01/14/11 Time: 1118 3cil Extract Volume: (µL Dilution Factor: 50 Analyst: RJU 3cil Aliquot Volume: (µL Prep Batch: Analytical Batch: 448013 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846	***************************************		***************************************		***************************************	
evei: (low/med) LOW Lab File ID: 2110116/a8965 6 Molisture: not dec. 16.2 Date Collected: 01/13/11 Time: 1400 3C Column: RTX-VMS-30 ID: .25 (mm Date Received: 01/14/11 Time: 1400 3C Column: RTX-VMS-30 ID: .25 (mm Date Received: 01/14/11 Time: 1118 3cil Extract Volume: (µL Dilution Factor: 50 Analyst: RJU 3cil Aliquot Volume: (µL Prep Batch: Analytical Batch: 448013 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846 8260 4 Analytical Method: SW-846	Sample wt/vol:	6.18 (g/ml) g	Lab Sample ID:	2110114050	01	
6 Moisture: not dec. 16.2 Date Collected: 01/13/11 Time: 1400 3C Column: RTX-VMS-30 ID: 25 (mm Date Received: 01/14/11 Time: 1118  Soil Extract Volume: (μL Dilution Factor: 50 Analyst: RJU  Soil Aliquot Volume: (μL Prep Batch: Analytical Batch: 449013  CONCENTRATION UNITS: mg/kg  CAS NO. COMPOUND RESULT Q MDL RL  108-86-1 Bromobenzene 0.241 U 0.015 0.241  75-27-4 Bromodichloromethane 0.241 U 0.00724 0.241  75-25-2 Bromoform 0.241 U 0.0774 0.241  75-25-2 Bromoform 0.241 U 0.071 0.241  75-15-0 Carbon disulfide 0.241 U 0.071 0.241  108-90-7 Chlorobenzene 0.241 U 0.001 0.241  108-90-7 Chlorobenzene 0.241 U 0.001 0.241  108-90-7 Chlorobenzene 0.241 U 0.001 0.241  108-90-7 Chlorobenzene 0.241 U 0.001 0.241  108-90-7 Chlorobenzene 0.241 U 0.0032 0.241  108-90-7 Chlorobenzene 0.241 U 0.0032 0.241  108-90-7 Chlorobenzene 0.241 U 0.032 0.241  108-90-7 Chlorobenzene 0.241 U 0.035 0.241  108-90-7 Chlorobenzene 0.241 U 0.005-0 0.241  108-90-7 Chlorobenzene 0.241 U 0.005-0 0.241  108-90-8 Chlorobenzene 0.241 U 0.005-0 0.241  108-90-9 Chlorobenzene 0.241 U 0.005-0 0.241  108-90-9 Chlorobenzene 0.241 U 0.005-0 0.241  108-90-9 Chlorobenzene 0.241 U 0.005-0 0.241  109-90-9 Chlorobenzene 0.241 U 0.005-0 0.241  109-90-9 Methyl Acetate 0.241 U 0.005-0 0.241  109-90-9 Methyl Acetate 0.241 U 0.005-0 0.241  109-90-9 Methyl Acetate 0.241 U 0.005-0 0.241  109-90-9 Methylene chloride 0.241 U 0.006-0 0.241  109-90-9 Methylene chloride 0.241 U 0.006-0 0.241  109-90-9 Methylene chloride 0.241 U 0.006-0 0.241  109-90-9 Methylene chloride 0.241 U 0.006-0 0.241  109-90-90 Methylene chloride 0.241 U 0.006-0 0.241  109-90-90 Methylene chloride 0.241 U 0.006-0 0.241  109-90-90 Methylene chloride 0.241 U 0.006-0 0.241  109-90-90 Methylene chlor		LOW	Lab File ID: 211	0116/a8965		
Date Received: 01/14/11   Date Analyzed: 01/16/11   Time: 1118   Soil Extract Volume:	% Moisture: not d	00 16 2	300000000000000000000000000000000000000			00
Date Analyzed: 01/16/11   Time: 1118   Soil Extract Volume:		***************************************				
Dilution Factor: 50   Analyst: RJU		<b>4</b> \$\/11	^	<u></u>	Time: 11:	18
Analytical Method: SW-846 8260	3					***************************************
Analytical Method:   SW-846 8260   SW-846 8260   CAS NO. COMPOUND   RESULT   Q   MDL   RL						***************************************
CAS NO.         COMPOUND         RESULT         Q         MDL         RL           108-86-1         Bromobenzene         0.241         U         0.015         0.241           75-27-4         Bromodichloromethane         0.241         U         0.00724         0.241           75-27-2         Bromoform         0.241         U         0.011         0.241           74-83-9         Bromomethane         0.241         U         0.071         0.241           75-15-0         Carbon disulfide         0.241         U         0.0011         0.241           108-90-7         Chloroforde         0.241         U         0.00908         0.241           75-00-3         Chloroform         0.638         0.012         0.241           76-66-3         Chloroform         0.638         0.012         0.241           74-87-3         Chloroform         0.638         0.012         0.241           108-27         Cyclohexane         0.241         U         0.00850         0.241           112-48-1         Dibromochloromethane         0.241         U         0.00850         0.241           12-49-3         Dibromochloromethane         0.241         U         0.00676	Soil Aliquot Volun	ne: ( µL	Prep Batch:		Analytical I	Batch: 449013
108-86-1   Bromobenzene	CONCENTRAT	ION UNITS: mg/kg	Analytical Method	I: SW-846 8	3260	
75-27-4         Bromodichloromethane         0.241         U         0.00724         0.241           75-25-2         Bromoform         0.241         U         0.011         0.241           74-83-9         Bromomethane         0.241         U         0.071         0.241           75-15-0         Carbon disulfide         0.241         U         0.011         0.241           108-90-7         Chlorobenzene         0.241         U         0.00908         0.241           75-00-3         Chloroethane         0.241         U         0.032         0.241           76-76-3         Chloroform         0.638         0.012         0.241           74-87-3         Chloroform         0.638         0.012         0.241           110-82-7         Cyclohexane         0.241         U         0.037         0.241           112-48-1         Dibromochloromethane         0.241         U         0.00850         0.241           124-48-1         Dibromochloromethane         0.241         U         0.00850         0.241           124-48-1         Dibromochloromethane         0.241         U         0.00566         0.241           125-71-8         Dichlorodifluoromethane         0.241<	CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-25-2   Bromoform	108-86-1	Bromobenzene	0.241	Τυ	0.015	0.241
75-25-2   Bromoform	75-27-4	Bromodichloromethane		Ū		
74-83-9   Bromomethane	75-25-2			T U		
75-15-0         Carbon disulfide         0.241         U         0.022         0.241           66-23-5         Carbon tetrachloride         0.241         U         0.011         0.241           108-90-7         Chlorobenzene         0.241         U         0.00908         0.241           75-00-3         Chloroform         0.638         0.012         0.241           74-87-3         Chloroform         0.638         0.012         0.241           110-82-7         Cyclohexane         0.241         U         0.037         0.241           110-82-7         Cyclohexane         0.241         U         0.00850         0.241           124-48-1         Dibromochloromethane         0.241         U         0.00676         0.241           74-95-3         Dibromomethane         0.241         U         0.00536         0.241           100-41-4         Ethylbenzene         0.241         U         0.00536         0.241           100-41-4         Ethylbenzene         0.241         U         0.00995         0.241           100-41-4         Ethylbenzene (Cumene)         0.241         U         0.00942         0.241           98-82-8         Isopropylbenzene (Cumene)         0.	74-83-9	Bromomethane		l u		
56-23-5         Carbon tetrachloride         0.241         U         0.011         0.241           108-90-7         Chlorobenzene         0.241         U         0.00908         0.241           75-00-3         Chloroferm         0.241         U         0.032         0.241           67-66-3         Chloromethane         0.241         U         0.037         0.241           74-87-3         Chloromethane         0.241         U         0.00850         0.241           110-82-7         Cyclohexane         0.241         U         0.00850         0.241           124-48-1         Dibromochloromethane         0.241         U         0.00676         0.241           74-95-3         Dibromomethane         0.241         U         0.0056         0.241           75-71-8         Dichlorodifluoromethane         0.241         U         0.00536         0.241           10-41-4         Ethylbenzene         0.241         U         0.00536         0.241           10-42-4         Ethylbenzene         0.241         U         0.00995         0.241           98-82-8         Isopropylbenzene (Cumene)         0.241         U         0.00942         0.241           79-20-9				<del></del>		
108-90-7   Chlorobenzene   0.241   U 0.00908   0.241   75-00-3   Chloroethane   0.241   U 0.032   0.241   0.032   0.241   0.032   0.241   0.032   0.241   0.032   0.241   0.032   0.241   0.032   0.241   0.037   0.241   0.037   0.241   0.037   0.241   0.037   0.241   0.037   0.241   0.037   0.241   0.037   0.241   0.037   0.241   0.00676   0.241   0.00676   0.241   0.00676   0.241   0.00676   0.241   0.00676   0.241   0.00676   0.241   0.00676   0.241   0.00676   0.241   0.00676   0.241   0.00676   0.241   0.00676   0.241   0.00676   0.241   0.00676   0.241   0.00676   0.241   0.00676   0.241   0.00676   0.241   0.009536   0.241   0.009536   0.241   0.009536   0.241   0.009536   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.00955   0.241   0.0063   0.241   0.0063   0.241   0.0063   0.241   0.0063   0.241   0.0063   0.241   0.0063   0.241   0.0063   0.241   0.0063   0.241   0.0063   0.241   0.0063   0.241   0.0063   0.241   0.0063   0.241   0.00655   0.241   0.00655   0.241   0.00655   0.241   0.00655   0.241   0.00666   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00667   0.241   0.00652   0.241   0.00652   0.241   0.00652   0.241   0.00652   0.241   0.00652   0.						
75-00-3         Chloroethane         0.241         U         0.032         0.241           67-66-3         Chloroform         0.638         0.012         0.241           74-87-3         Chloromethane         0.241         U         0.037         0.241           110-82-7         Cyclohexane         0.241         U         0.00850         0.241           124-48-1         Dibromochloromethane         0.241         U         0.00676         0.241           74-95-3         Dibromomethane         0.241         U         0.015         0.241           75-71-8         Dichlorodifluoromethane         0.241         U         0.00536         0.241           100-41-4         Ethylbenzene         0.241         U         0.00955         0.241           87-68-3         Hexachlorobutadiene         0.241         U         0.00995         0.241           88-82-8         Isopropylbenzene (Cumene)         0.241         U         0.0011         0.241           79-20-9         Methyl Acetate         0.241         U         0.017         0.241           74-88-4         Methyli odide         0.241         U         0.077         0.241           78-09-2         Methyli odide <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
67-66-3         Chloroform         0.638         0.012         0.241           74-87-3         Chloromethane         0.241         U         0.037         0.241           110-82-7         Cyclohexane         0.241         U         0.00850         0.241           124-48-1         Dibromochloromethane         0.241         U         0.00676         0.241           74-95-3         Dibromomethane         0.241         U         0.015         0.241           75-71-8         Dichlorodifluoromethane         0.241         U         0.00536         0.241           100-41-4         Ethylbenzene         0.241         U         0.00995         0.241           87-68-3         Hexachlorobutadiene         0.241         U         0.00995         0.241           98-82-8         Isopropylbenzene (Cumene)         0.241         U         0.00942         0.241           79-20-9         Methyl Acetate         0.241         U         0.063         0.241           74-88-4         Methyl iodide         0.241         U         0.063         0.241           76-09-2         Methylene chloride         0.483         U         0.017         0.483           91-20-3         Naphthalen						
74-87-3         Chloromethane         0.241         U         0.037         0.241           110-82-7         Cyclohexane         0.241         U         0.00850         0.241           124-48-1         Dibromochloromethane         0.241         U         0.00676         0.241           74-95-3         Dibromomethane         0.241         U         0.015         0.241           75-71-8         Dichlorodifluoromethane         0.241         U         0.00536         0.241           100-41-4         Ethylbenzene         0.241         U         0.00995         0.241           87-68-3         Hexachlorobutadiene         0.241         U         0.011         0.241           98-82-8         Isopropylbenzene (Cumene)         0.241         U         0.00942         0.241           79-20-9         Methyl Acetate         0.241         U         0.017         0.241           74-88-4         Methyl iodide         0.241         U         0.063         0.241           108-87-2         Methylcyclohexane         0.241         U         0.063         0.241           75-09-2         Methylcyclohexane         0.241         U         0.017         0.483           91-20-3 <td></td> <td></td> <td></td> <td><del>                                     </del></td> <td></td> <td></td>				<del>                                     </del>		
110-82-7   Cyclohexane   0.241   U   0.00850   0.241   124-48-1   Dibromochloromethane   0.241   U   0.00676   0.241   124-48-1   Dibromochloromethane   0.241   U   0.0056   0.241   174-95-3   Dibromomethane   0.241   U   0.015   0.241   175-71-8   Dichlorodifluoromethane   0.241   U   0.00536   0.241   175-71-8   Dichlorodifluoromethane   0.241   U   0.00995   0.241   175-71-8   Dichlorodudiene   0.241   U   0.00995   0.241   175-71-8   Dichlorodudiene   0.241   U   0.00995   0.241   175-71-8   Dichlorodudiene   0.241   U   0.011   0.241   175-71-8   Dichlorodudiene   0.241   U   0.00942   0.241   175-71-92-9   Methyl Acetate   0.241   U   0.0074   0.241   175-71-92   Methyl iodide   0.241   U   0.063   0.241   175-71-92   Methylcyclohexane   0.241   U   0.00792   0.241   175-71-92   Methylene chloride   0.483   U   0.017   0.483   175-71-92   Methylene chloride   0.483   U   0.017   0.483   175-71-92   Methylene chloride   0.241   U   0.040   0.241   175-71-92   Dichlorodutene   0.241   U   0.013   0.241   175-71-92   Dichlorodutene   0.241   U   0.013   0.241   175-91-94   Tetrachloroethene   0.241   U   0.013   0.241   175-91-94   Trichlorothene   0.241   U   0.00966   0.241   175-91-96   Trichlorothene   0.241   U   0.00647   0.241   175-91-94   Trichlorothene   0.241   U   0.00647   0.241   175-91-4   Trichlorothene   0.241   U   0.00652   0.241   175-91-4   Vinyl chloride   0.				1-0-		
124-48-1         Dibromochloromethane         0.241         U         0.00676         0.241           74-95-3         Dibromomethane         0.241         U         0.015         0.241           75-71-8         Dichlorodifluoromethane         0.241         U         0.00536         0.241           100-41-4         Ethylbenzene         0.241         U         0.00995         0.241           87-68-3         Hexachlorobutadiene         0.241         U         0.011         0.241           98-82-8         Isopropylbenzene (Cumene)         0.241         U         0.00942         0.241           79-20-9         Methyl Acetate         0.241         U         0.017         0.241           79-20-9         Methyli Acetate         0.241         U         0.063         0.241           78-8-4         Methyli odide         0.241         U         0.063         0.241           108-87-2         Methylicyclohexane         0.241         U         0.00792         0.241           75-09-2         Methylicyclohexane         0.241         U         0.00792         0.241           100-42-5         Styrene         0.241         U         0.040         0.241           100-42-5 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
74-95-3         Dibromomethane         0.241         U         0.015         0.241           75-71-8         Dichlorodifluoromethane         0.241         U         0.00536         0.241           100-41-4         Ethylbenzene         0.241         U         0.00995         0.241           87-68-3         Hexachlorobutadiene         0.241         U         0.011         0.241           98-82-8         Isopropylbenzene (Cumene)         0.241         U         0.00942         0.241           79-20-9         Methyl Acetate         0.241         U         0.017         0.241           74-88-4         Methyl iodide         0.241         U         0.063         0.241           108-87-2         Methylcyclohexane         0.241         U         0.00792         0.241           75-09-2         Methylene chloride         0.483         U         0.017         0.483           91-20-3         Naphthalene         0.241         U         0.040         0.241           100-42-5         Styrene         0.241         U         0.013         0.241           127-18-4         Tetrachloroethene         0.241         U         0.010         0.241           108-88-3						
75-71-8         Dichlorodifluoromethane         0.241         U         0.00536         0.241           100-41-4         Ethylbenzene         0.241         U         0.00995         0.241           87-68-3         Hexachlorobutadiene         0.241         U         0.011         0.241           98-82-8         Isopropylbenzene (Cumene)         0.241         U         0.00942         0.241           79-20-9         Methyl Acetate         0.241         U         0.017         0.241           74-88-4         Methyl iodide         0.241         U         0.063         0.241           108-87-2         Methylcyclohexane         0.241         U         0.00792         0.241           75-09-2         Methylene chloride         0.483         U         0.017         0.483           91-20-3         Naphthalene         0.241         U         0.040         0.241           100-42-5         Styrene         0.241         U         0.040         0.241           102-41-5         Styrene         0.241         U         0.013         0.241           108-88-3         Toluene         0.241         U         0.0066         0.241           75-69-4         Trichloroet						
100-41-4         Ethylbenzene         0.241         U         0.00995         0.241           87-68-3         Hexachlorobutadiene         0.241         U         0.011         0.241           98-82-8         Isopropylbenzene (Cumene)         0.241         U         0.00942         0.241           79-20-9         Methyl Acetate         0.241         U         0.017         0.241           74-88-4         Methyl iodide         0.241         U         0.063         0.241           108-87-2         Methylcyclohexane         0.241         U         0.00792         0.241           75-09-2         Methylene chloride         0.483         U         0.017         0.483           91-20-3         Naphthalene         0.241         U         0.040         0.241           100-42-5         Styrene         0.241         U         0.013         0.241           127-18-4         Tetrachloroethene         0.241         U         0.010         0.241           108-88-3         Toluene         0.241         U         0.00966         0.241           75-69-4         Trichloroethene         0.112         J         0.011         0.241           75-69-4         Trichlorot				<u> </u>		
87-68-3         Hexachlorobutadiene         0.241         U         0.011         0.241           98-82-8         Isopropylbenzene (Cumene)         0.241         U         0.00942         0.241           79-20-9         Methyl Acetate         0.241         U         0.017         0.241           79-20-9         Methyl iodide         0.241         U         0.063         0.241           108-87-2         Methylcyclohexane         0.241         U         0.00792         0.241           75-09-2         Methylene chloride         0.483         U         0.017         0.483           91-20-3         Naphthalene         0.241         U         0.040         0.241           100-42-5         Styrene         0.241         U         0.013         0.241           127-18-4         Tetrachloroethene         0.241         U         0.010         0.241           108-88-3         Toluene         0.241         U         0.00966         0.241           79-01-6         Trichloroethene         0.112         J         0.011         0.241           75-69-4         Trichlorotrifluoroethane         0.241         U         0.0667         0.241           108-05-4 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
98-82-8         Isopropylbenzene (Cumene)         0.241         U         0.00942         0.241           79-20-9         Methyl Acetate         0.241         U         0.017         0.241           74-88-4         Methyl iodide         0.241         U         0.063         0.241           108-87-2         Methylcyclohexane         0.241         U         0.00792         0.241           75-09-2         Methylene chloride         0.483         U         0.017         0.483           91-20-3         Naphthalene         0.241         U         0.040         0.241           100-42-5         Styrene         0.241         U         0.013         0.241           127-18-4         Tetrachloroethene         0.241         U         0.010         0.241           108-88-3         Toluene         0.241         U         0.00966         0.241           79-01-6         Trichloroethene         0.112         J         0.011         0.241           75-69-4         Trichlorofiluoromethane         0.241         U         0.0647         0.241           76-13-1         Trichlorotrifluoroethane         0.241         U         0.056         0.241           108-05-4						
79-20-9         Methyl Acetate         0.241         U         0.017         0.241           74-88-4         Methyl iodide         0.241         U         0.063         0.241           108-87-2         Methylcyclohexane         0.241         U         0.00792         0.241           75-09-2         Methylene chloride         0.483         U         0.017         0.483           91-20-3         Naphthalene         0.241         U         0.040         0.241           100-42-5         Styrene         0.241         U         0.013         0.241           127-18-4         Tetrachloroethene         0.241         U         0.010         0.241           108-88-3         Toluene         0.241         U         0.00966         0.241           79-01-6         Trichloroethene         0.112         J         0.011         0.241           75-69-4         Trichlorofluoromethane         0.241         U         0.00647         0.241           76-13-1         Trichlorotrifluoroethane         0.241         U         0.056         0.241           108-05-4         Vinyl acetate         0.241         U         0.00652         0.241           75-01-4         Vinyl c						
74-88-4         Methyl iodide         0.241         U         0.063         0.241           108-87-2         Methylcyclohexane         0.241         U         0.00792         0.241           75-09-2         Methylene chloride         0.483         U         0.017         0.483           91-20-3         Naphthalene         0.241         U         0.040         0.241           100-42-5         Styrene         0.241         U         0.013         0.241           127-18-4         Tetrachloroethene         0.241         U         0.010         0.241           108-88-3         Toluene         0.241         U         0.00966         0.241           79-01-6         Trichloroethene         0.112         J         0.011         0.241           75-69-4         Trichlorofluoromethane         0.241         U         0.00647         0.241           76-13-1         Trichlorotrifluoroethane         0.241         U         0.056         0.241           108-05-4         Vinyl acetate         0.241         U         0.00652         0.241           75-01-4         Vinyl chloride         0.241         U         0.00652         0.241           1330-20-7         Xyl						
108-87-2         Methylcyclohexane         0.241         U         0.00792         0.241           75-09-2         Methylene chloride         0.483         U         0.017         0.483           91-20-3         Naphthalene         0.241         U         0.040         0.241           100-42-5         Styrene         0.241         U         0.013         0.241           127-18-4         Tetrachloroethene         0.241         U         0.010         0.241           108-88-3         Toluene         0.241         U         0.00966         0.241           79-01-6         Trichloroethene         0.112         J         0.011         0.241           75-69-4         Trichlorofluoromethane         0.241         U         0.00647         0.241           76-13-1         Trichlorotrifluoroethane         0.241         U         0.056         0.241           108-05-4         Vinyl acetate         0.241         U         0.011         0.241           75-01-4         Vinyl chloride         0.241         U         0.00652         0.241           1330-20-7         Xylene (total)         0.483         U         0.033         0.483						
75-09-2         Methylene chloride         0.483         U         0.017         0.483           91-20-3         Naphthalene         0.241         U         0.040         0.241           100-42-5         Styrene         0.241         U         0.013         0.241           127-18-4         Tetrachloroethene         0.241         U         0.010         0.241           108-88-3         Toluene         0.241         U         0.00966         0.241           79-01-6         Trichloroethene         0.112         J         0.011         0.241           75-69-4         Trichlorofluoromethane         0.241         U         0.00647         0.241           76-13-1         Trichlorotrifluoroethane         0.241         U         0.056         0.241           108-05-4         Vinyl acetate         0.241         U         0.011         0.241           75-01-4         Vinyl chloride         0.241         U         0.00652         0.241           1330-20-7         Xylene (total)         0.483         U         0.033         0.483						
91-20-3         Naphthalene         0.241         U         0.040         0.241           100-42-5         Styrene         0.241         U         0.013         0.241           127-18-4         Tetrachloroethene         0.241         U         0.010         0.241           108-88-3         Toluene         0.241         U         0.00966         0.241           79-01-6         Trichloroethene         0.112         J         0.011         0.241           75-69-4         Trichlorofluoromethane         0.241         U         0.00647         0.241           76-13-1         Trichlorotrifluoroethane         0.241         U         0.056         0.241           108-05-4         Vinyl acetate         0.241         U         0.011         0.241           75-01-4         Vinyl chloride         0.241         U         0.00652         0.241           1330-20-7         Xylene (total)         0.483         U         0.033         0.483						
100-42-5         Styrene         0.241         U         0.013         0.241           127-18-4         Tetrachloroethene         0.241         U         0.010         0.241           108-88-3         Toluene         0.241         U         0.00966         0.241           79-01-6         Trichloroethene         0.112         J         0.011         0.241           75-69-4         Trichlorofluoromethane         0.241         U         0.00647         0.241           76-13-1         Trichlorotrifluoroethane         0.241         U         0.056         0.241           108-05-4         Vinyl acetate         0.241         U         0.011         0.241           75-01-4         Vinyl chloride         0.241         U         0.00652         0.241           1330-20-7         Xylene (total)         0.483         U         0.033         0.483						
127-18-4         Tetrachloroethene         0.241         U         0.010         0.241           108-88-3         Toluene         0.241         U         0.00966         0.241           79-01-6         Trichloroethene         0.112         J         0.011         0.241           75-69-4         Trichlorofluoromethane         0.241         U         0.00647         0.241           76-13-1         Trichlorotrifluoroethane         0.241         U         0.056         0.241           108-05-4         Vinyl acetate         0.241         U         0.011         0.241           75-01-4         Vinyl chloride         0.241         U         0.00652         0.241           1330-20-7         Xylene (total)         0.483         U         0.033         0.483						
108-88-3         Toluene         0.241         U         0.00966         0.241           79-01-6         Trichloroethene         0.112         J         0.011         0.241           75-69-4         Trichlorofluoromethane         0.241         U         0.00647         0.241           76-13-1         Trichlorotrifluoroethane         0.241         U         0.056         0.241           108-05-4         Vinyl acetate         0.241         U         0.011         0.241           75-01-4         Vinyl chloride         0.241         U         0.00652         0.241           1330-20-7         Xylene (total)         0.483         U         0.033         0.483				1		
79-01-6         Trichloroethene         0.112         J         0.011         0.241           75-69-4         Trichlorofluoromethane         0.241         U         0.00647         0.241           76-13-1         Trichlorotrifluoroethane         0.241         U         0.056         0.241           108-05-4         Vinyl acetate         0.241         U         0.011         0.241           75-01-4         Vinyl chloride         0.241         U         0.00652         0.241           1330-20-7         Xylene (total)         0.483         U         0.033         0.483						
75-69-4         Trichlorofluoromethane         0.241         U         0.00647         0.241           76-13-1         Trichlorotrifluoroethane         0.241         U         0.056         0.241           108-05-4         Vinyl acetate         0.241         U         0.011         0.241           75-01-4         Vinyl chloride         0.241         U         0.00652         0.241           1330-20-7         Xylene (total)         0.483         U         0.033         0.483						
76-13-1         Trichlorotrifluoroethane         0.241         U         0.056         0.241           108-05-4         Vinyl acetate         0.241         U         0.011         0.241           75-01-4         Vinyl chloride         0.241         U         0.00652         0.241           1330-20-7         Xylene (total)         0.483         U         0.033         0.483						
108-05-4         Vinyl acetate         0.241         U         0.011         0.241           75-01-4         Vinyl chloride         0.241         U         0.00652         0.241           1330-20-7         Xylene (total)         0.483         U         0.033         0.483						
75-01-4         Vinyl chloride         0.241         U         0.00652         0.241           1330-20-7         Xylene (total)         0.483         U         0.033         0.483				1		
1330-20-7 Xylene (total) 0.483 U 0.033 0.483						

SAMPLE NO.

T-15-F	
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Lab Name: GCAL Contr	ract:			:	
Lab Code: LA024 Case No.:				o.: 21101	11405
Matrix: (soil/water) Solid	***************************************				
Sample wt/vol: 6.18 (g/ml) g		Lab Sample ID:	21101140501		
Level: (low/med) LOW			0116/a8965		
% Moisture: not dec. 16.2			01/13/11	Time: 1	1400
GC Column: RTX-VMS-30 ID: .25		Date Received:	01/14/11		
Instrument ID: MSV11		Date Analyzed:	01/16/11		1118
Soil Extract Volume:			50		RJU
Soil Aliquot Volume:					
CONCENTRATION UNITS: mg/kg		Analytical Method	l: SW-846 8260		
CAS NO. COMPOUND		RESULT	Q I	MDL	RL
10061-01-5 cis-1,3-Dichloropropene	·		T	00700	
Troop 1-5 1-5 Top- 1,5-Digition obtobetie		0.241	UO	0.00700	0.241
136777-61- m,p-Xylene		0.241		0.024	0.241
			U		
136777-61- m,p-Xylene		0.241	U	0.024	0.241
136777-61- m,p-Xylene 71-36-3 n-Butyl alcohol		0.241 1.21	U U U	0.024 0.884	0.241 1.21
136777-61-       m,p-Xylene         71-36-3       n-Butyl alcohol         104-51-8       n-Butylbenzene		0.241 1.21 0.241	U U U U U	0.024 0.884 0.017	0.241 1.21 0.241
136777-61-       m,p-Xylene         71-36-3       n-Butyl alcohol         104-51-8       n-Butylbenzene         103-65-1       n-Propylbenzene		0.241 1.21 0.241 0.241	U U U U U U 0	0.024 0.884 0.017 0.013	0.241 1.21 0.241 0.241
136777-61-       m,p-Xylene         71-36-3       n-Butyl alcohol         104-51-8       n-Butylbenzene         103-65-1       n-Propylbenzene         95-47-6       o-Xylene		0.241 1.21 0.241 0.241 0.241	U U U U U U U	0.024 0.884 0.017 0.013	0.241 1.21 0.241 0.241 0.241
136777-61-       m,p-Xylene         71-36-3       n-Butyl alcohol         104-51-8       n-Butylbenzene         103-65-1       n-Propylbenzene         95-47-6       o-Xylene         135-98-8       sec-Butylbenzene		0.241 1.21 0.241 0.241 0.241 0.241	U U 0 U 0 U 0 U 0	0.024 0.884 0.017 0.013 0.00913 0.012	0.241 1.21 0.241 0.241 0.241 0.241
136777-61-         m,p-Xylene           71-36-3         n-Butyl alcohol           104-51-8         n-Butylbenzene           103-65-1         n-Propylbenzene           95-47-6         o-Xylene           135-98-8         sec-Butylbenzene           1634-04-4         tert-Butyl methyl ether (MTBE)		0.241 1.21 0.241 0.241 0.241 0.241 0.241	U U U U U U U U U U U U U U U U U U U	0.024 0.884 0.017 0.013 0.00913 0.012	0.241 1.21 0.241 0.241 0.241 0.241 0.241
136777-61-         m,p-Xylene           71-36-3         n-Butyl alcohol           104-51-8         n-Butylbenzene           103-65-1         n-Propylbenzene           95-47-6         o-Xylene           135-98-8         sec-Butylbenzene           1634-04-4         tert-Butyl methyl ether (MTBE)           98-06-6         tert-Butylbenzene		0.241 1.21 0.241 0.241 0.241 0.241 0.241 0.241	U U U U U U U U U U U U U U U U U U U	0.024 0.884 0.017 0.013 0.00913 0.0012 0.00807 0.011	0.241 1.21 0.241 0.241 0.241 0.241 0.241 0.241

SAMPLE NO.

T-15-F MS

Lab Name: GCA	AL Contra	ct:				
	Case No.:					405
Matrix: (soil/water	) Solid					
Sample wt/vol:	4.91 (g/ml) g		Lab Sample ID:	2110114050	2	
_evel: (low/med)	LOW		Lab File ID: 211	0116/a8972		
% Moisture: not de			Date Collected:	01/13/11	Time: 14	00
GC Column: RT	X-VMS-30 ID: .25		Date Received:		••••••	
nstrument ID: M			Date Analyzed:		Time: 14	01
	ne:		Dilution Factor:			RJU
			•			
Soil Aliquot Volum	ne:	( µL	Prep Batch:		Analytical	Batch: 449013
CONCENTRATI	ION UNITS: mg/kg		Analytical Method	: SW-846 8	3260	
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane		2.97	<u> </u>	0.00638	0.304
71-55-6	1,1,1-Trichloroethane		2.93		0.014	0.304
79-34-5	1,1,2,2-Tetrachloroethane	***************************************	2.77		0.017	0.304
79-00-5	1,1,2-Trichloroethane		2.71		0.014	0.304
75-34-3	1,1-Dichloroethane		2.97		0.020	0.304
75-35-4	1,1-Dichloroethene		2.94		0.041	0.304
563-58-6	1,1-Dichloropropene		2.95		0.013	0.304
96-18-4	1,2,3-Trichloropropane		2.58		0.021	0.122
120-82-1	1,2,4-Trichlorobenzene		2.71		0.019	0.304
95-63-6	1,2,4-Trimethylbenzene	***************************************	3.01		0.018	0.304
96-12-8	1,2-Dibromo-3-chloropropane		2.53		0.049	0.304
106-93-4	1,2-Dibromoethane		2.75		0.015	0.304
95-50-1	1,2-Dichlorobenzene		2.96		0.020	0.304
107-06-2	1,2-Dichloroethane		2.85		0.00796	0.304
78-87-5	1,2-Dichloropropane		3.00		0.00657	0.304
108-67-8	1,3,5-Trimethylbenzene		3.01		0.015	0.304
541-73-1	1,3-Dichlorobenzene		2.98		0.019	0.304
142-28-9	1,3-Dichloropropane		2.79		0.011	0.304
106-46-7	1,4-Dichlorobenzene		3.00		0.025	0.304
594-20-7	2,2-Dichloropropane		2.91		0.071	0.304
78-93-3	2-Butanone		2.73		0.037	0.304
110-75-8	2-Chloroethylvinyl ether		2.18		0.014	0.304
95-49-8	2-Chlorotoluene		3.01		0.016	0.304
591-78-6	2-Hexanone		2.71		0.021	0.304
106-43-4	4-Chlorotoluene		3.03		0.019	0.304
99-87-6	4-Isopropyltoluene		2.95		0.016	0.304
108-10-1	4-Methyl-2-pentanone		2.57		0.021	0.304
67-64-1	Acetone		2.84		0.064	1.52
107-02-8	Acrolein		1.05	J	0.122	1.52
107-13-1	Acrylonitrile		13.0		0.065	1.52
71-43-2	Benzene		3.10		0.00833	0.304

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T-15-F MS

Lab Name: G0	CAL Contract:			
	024 Case No.:			405
Matrix: (soil/wate				
Sample wt/vol:	4.91 (g/ml) g	Lab Sample ID: 21	101140502	
	LOW		16/a8972	
	dec. 16.2	Date Collected: 01		00
			······································	
3C Column: R	TX-VMS-30 ID: .25 (mm	Date Received: 01	/14/11	
nstrument ID:	MSV11	Date Analyzed: 01	/16/11 Time: 14	.01
Soil Extract Volu	ume: (μL	Dilution Factor: 50	Analyst:	RJU
				***************************************
soli Aliquot Volu	ıme: ( µL	Piep Batcii.	Analytical	Datch. 449013
CONCENTRA	TION UNITS: mg/kg	Analytical Method:	SW-846 8260	
CAS NO.		RESULT	Q MDL	RL
108-86-1	Bromobenzene	3.02	0.018	0.304
75-27-4	Bromodichloromethane	2.97	0.00912	0.304
75-25-2	Bromoform	2.77	0.014	0.304
74-83-9	Bromomethane	2.78	0.089	0.304
75-15-0	Carbon disulfide	2.94	0.028	0.304
56-23-5	Carbon tetrachloride	2.90	0.014	0.304
108-90-7	Chlorobenzene	3.01	0.014	0.304
75-00-3	Chloroethane	2.64	0.040	0.304
67-66-3	Chloroform	2.96	0.015	0.304
74-87-3	Chloromethane	2.63	0.046	0.304
110-82-7	Cyclohexane	3.00	0.011	0.304
124-48-1	Dibromochloromethane	2.84	0.00851	0.304
74-95-3	Dibromomethane	2.81	0.019	0.304
75-71-8	Dichlorodifluoromethane	2.75	0.00675	0.304
100-41-4	Ethylbenzene	2.94	0.013	0.304
87-68-3	Hexachlorobutadiene	2.76	0.014	0.304
98-82-8	Isopropylbenzene (Cumene)	2.91	0.012	0.304
79-20-9	Methyl Acetate	2.76	0.021	0.304
74-88-4	Methyl iodide	3.14	0.080	0.304
108-87-2	Methylcyclohexane	2.88	0.00997	0.304
75-09-2	Methylene chloride	2.85	0.021	0.608
91-20-3	Naphthalene	2.42	0.050	0.304
100-42-5	Styrene	3.08	0.016	0.304
127-18-4	Tetrachloroethene	2.89	0.013	0.304
108-88-3	Toluene	3.02	0.012	0.304
79-01-6	Trichloroethene	2.96	0.014	0.304
75-69-4	Trichlorofluoromethane	2.96	0.00815	0.304
76-13-1	Trichlorotrifluoroethane	2.90	0.070	0.304
108-05-4	Vinyl acetate	2.13	0.013	0.304
75-01-4	Vinyl chloride	2.76	0.00821	0.304
1330-20-7	Xylene (total)	8.97	0.042	0.608
156-59-2	cis-1,2-Dichloroethene	2.96	0.010	0.304

SAMPLE NO.

T	-15-	FN	ИS	 	 

Lab Name: GCAL	Contract:				
Lab Code: LA024 Case No.:				: 211011405	
Matrix: (soil/water) Solid		•			
Sample wt/vol: 4.91 (g/ml) g		Lab Sample ID:	21101140502		
Level: (low/med) LOW		Lab File ID: 21	10116/a8972		
% Moisture: not dec. 16.2		Date Collected:	01/13/11	Time: 1400	
GC Column: RTX-VMS-30 ID: .25	(mm	Date Received:	01/14/11		
nstrument ID: MSV11				Time: 1401	
Soil Extract Volume:				Analyst: RJU	
Soil Aliquot Volume:				Analytical Batch:	449013
CONCENTRATION UNITS: mg/kg			od: SW-846 8260		
CAS NO. COMPOUND		RESULT	Q M	DL R	L
10061-01-5 cis-1,3-Dichloropropene		2.96	0.0	0881	0.304
136777-61- m,p-Xylene		5.97	0.	031	0.304
104-51-8 n-Butylbenzene		2.95	0.	021	0.304
103-65-1 n-Propylbenzene		3.01	0.	016	0.304
95-47-6 o-Xylene		3.00	0.	.011	0.304
135-98-8 sec-Butylbenzene		2.97	0.	.015	0.304
1634-04-4 tert-Butyl methyl ether (MT	BE)	2.77	0.	.010	0.304
98-06-6 tert-Butylbenzene		2.97	0.	.014	0.304
156-60-5 trans-1,2-Dichloroethene		2.97	0.	.012	0.304
10061-02-6 trans-1,3-Dichloropropene		2.88	0.	.013	0.304
110-57-6 trans-1,4-Dichloro-2-buten	e	2.67	0.	.035	0.304

SAMPLE NO.

T-15-F MSD

Lab Name: GCAL	Contrac	t:			domain.	
Lab Code: LA024					No.: 21101	1405
Matrix: (soil/water)						
Sample wt/vol: 6.0	03 (g/ml) g		Lab Sample ID:	21101140503		
Level: (low/med) L	.OW		Lab File ID: 21	10116/a8973	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
% Moisture: not dec	:. 16.2	••••••	Date Collected:	01/13/11	Time: 1	400
GC Column: RTX-	VMS-30 ID: .25 (	(mm	Date Received:	01/14/11		
Instrument ID: MS	V11		Date Analyzed:	01/16/11	Time: 1	425
Soil Extract Volume	:	(μL	Dilution Factor:	50	Analyst:	RJU
		(μL	Prep Batch:		Analytica	l Batch: 449013
CONCENTRATIO	N UNITS: mg/kg		Analytical Metho	d: SW-846 8260		
			DECLUT		MDI	D/
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane		2.38		0.00520	0.247
71-55-6	1,1,1-Trichloroethane		2.30		0.011	0.247
79-34-5	1,1,2,2-Tetrachloroethane		2.36		0.014	0.247
79-00-5	1,1,2-Trichloroethane		2.27		0.012	0.247
75-34-3	1,1-Dichloroethane		2.34		0.016	0.247
75-35-4	1,1-Dichloroethene		2.28		0.033	0.247
563-58-6	1,1-Dichloropropene		2.30		0.010	0.247
96-18-4	1,2,3-Trichloropropane		2.21		0.017	0.099
120-82-1	1,2,4-Trichlorobenzene		2.30		0.015	0.247
95-63-6	1,2,4-Trimethylbenzene		2.34		0.015	0.247
96-12-8	1,2-Dibromo-3-chloropropane		2.30		0.040	0.247
106-93-4	1,2-Dibromoethane		2.28		0.012	0.247
95-50-1	1,2-Dichlorobenzene		2.39		0.016	0.247
107-06-2	1,2-Dichloroethane		2.33		0.00648	0.247
78-87-5	1,2-Dichloropropane		2.34		0.00535	0.247
108-67-8	1,3,5-Trimethylbenzene		2.34		0.012	0.247
541-73-1	1,3-Dichlorobenzene		2.35		0.016	0.247
142-28-9	1,3-Dichloropropane		2.30		0.00886	0.247
106-46-7	1,4-Dichlorobenzene		2.36		0.020	0.247
594-20-7	2,2-Dichloropropane		2.24		0.057	0.247
78-93-3	2-Butanone		2.54		0.030	0.247
110-75-8	2-Chloroethylvinyl ether		1.91		0.012	0.247
95-49-8	2-Chlorotoluene		2.36		0.013	0.247
591-78-6	2-Hexanone		2.55		0.017	0.247
106-43-4	4-Chlorotoluene		2.35		0.015	0.247
99-87-6	4-Isopropyltoluene		2.32		0.013	0.247
108-10-1	4-Methyl-2-pentanone		2.39		0.017	0.247
67-64-1	Acetone		2.60		0.052	1.24
107-02-8	Acrolein		2.45		0.099	1.24
107-13-1	Acrylonitrile		11.7		0.053	1.24
71-43-2	Benzene		2.36		0.00678	0.247

SAMPLE NO.

T-15-F MSD

Lab Name: GC	CAL Contract:				
	O24 Case No.:			o.: 2110114	05
Matrix: (soil/wate					
Sample wt/vol:	6.03 (g/ml) g	Lab Sample ID:	21101140503		
_evel: (low/med)		Lab Eila ID: 21	10116/a8973		
% Moisture: not			01/13/11	Time: 140	0
GC Column: R	TX-VMS-30 ID: .25 (mn		01/14/11		
nstrument ID:	MSV11	Date Analyzed:	01/16/11	Time: 142	5
•••	ıme: (μL		50	J	JU
Soil Aliquot Volu			-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	atch: 449013
	······································		od: SW-846 8260	7a.you. 2	
CONCENTRA	TION UNITS: mg/kg	Analytical Metric	ou. 300-040 0200		
CAS NO.	COMPOUND	RESULT	Q N	<b>IDL</b>	RL
108-86-1	Bromobenzene	2.36	T T (	0.015	0.247
75-27-4	Bromodichloromethane	2.35		00742	0.247
75-25-2	Bromoform	2.39		0.011	0.247
74-83-9	Bromomethane	2.27		0.072	0.247
75-15-0	Carbon disulfide	2.27	<del></del>	0.023	0.247
56-23-5	Carbon tetrachloride	2.26		0.012	0.247
108-90-7	Chlorobenzene	2.39		00931	0.247
75-00-3	Chloroethane	1.72		0.033	0.247
67-66-3	Chloroform	2.38		0.012	0.247
74-87-3	Chloromethane	2.13		0.037	0.247
110-82-7	Cyclohexane	2.36		00871	0.247
124-48-1	Dibromochloromethane	2.30		00693	0.247
74-95-3	Dibromomethane	2.28		0.016	0.247
75-71-8	Dichlorodifluoromethane	2.13		00549	0.247
100-41-4	Ethylbenzene	2.29		0.010	0.247
87-68-3	Hexachlorobutadiene	2.30		0.010	0.247
98-82-8	Isopropylbenzene (Cumene)	2.33		00965	0.247
79-20-9	Methyl Acetate	2.33		0.017	0.247
74-88-4	Methyl iodide	2.58		0.065	0.247
108-87-2 75-09-2	Methylone chloride	2.26		00812	0.247
	Methylene chloride	2.22			0.495
91-20-3	Naphthalene	2.28		0.041	0.247
100-42-5	Styrene	2.47		0.013	0.247
127-18-4	Tetrachloroethene	2.28		0.010	0.247
108-88-3	Toluene	2.39		00990	0.247
79-01-6	Trichloroffueremethan	2.34		0.012	0.247
75-69-4	Trichlorofluoromethane	2.27		00663	0.247
76-13-1	Trichlorotrifluoroethane	2.27		0.057	0.247
108-05-4	Vinyl acetate	1.78		0.011	0.247
75-01-4	Vinyl chloride	2.18		00668	0.247
1330-20-7	Xylene (total)	7.04		0.034	0.495
156-59-2	cis-1,2-Dichloroethene	2.32	1 1 0.	00851	0.247

SAMPLE NO.

T-15-F MSD

Lab Name: GCA	AL Contr	act:				
_ab Code: LA02	Case No.:				.: 211011	405
Matrix: (soil/water)	) Solid					
Sample wt/vol:6	6.03 (g/ml) g		Lab Sample ID:	21101140503		
evel: (low/med)	LOW		Lab File ID: 21	10116/a8973		
% Moisture: not de	ec. 16.2		Date Collected:	01/13/11	Time: 14	100
	X-VMS-30 ID: .25			01/14/11		
	ISV11		Date Analyzed:	01/16/11	Time: 14	25
	ne:			50	Analyst:	RJU
	ne:				Analytical	Batch: 449013
	ION UNITS: mg/kg			d: SW-846 8260		
CAS NO.	COMPOUND		RESULT	Q M	<b>I</b> DL	RL
10061-01-5	cis-1,3-Dichloropropene		2.39	0.	00718	0.247
136777-61-	m,p-Xylene		4.69	C	).025	0.247
104-51-8	n-Butylbenzene		2.32		).017	0.247
103-65-1	n-Propylbenzene		2.34	C	).013	0.247
95-47-6	o-Xylene		2.35	0.	00936	0.247
135-98-8	sec-Butylbenzene		2.32	C	).012	0.247
1634-04-4	tert-Butyl methyl ether (MTBE)		2.34	0.	00827	0.247
98-06-6	tert-Butylbenzene		2.32		0.012	0.247
156-60-5	trans-1,2-Dichloroethene		2.32		0.010	0.247
10061-02-6	trans-1,3-Dichloropropene		2.38		).011	0.247
110-57-6	trans-1,4-Dichloro-2-butene		2.40		0.028	0.247

SAMPLE NO.

T-21-F

Lab Name: G0	CAL Contrac	:t:				
Lab Code: LA	Case No.:	·····	SAS No.:		SDG No.: 2110114	405
Matrix: (soil/wate	er) Solid					
Sample wt/vol:	5.81 (g/ml) g		Lab Sample ID:	2110114050	04	
Level: (low/med)	LOW		Lab File ID: 2110			
			,			A.F.
% Moisture: not	•		Date Collected:	01/13/11	Time: 144	45
GC Column: R	TX-VMS-30 ID: .25	(mm	Date Received:	01/14/11		
Instrument ID:	MSV11		Date Analyzed:	01/16/11	Time: 160	03
Soil Extract Volu	ıme:		Dilution Factor:	50	Analyst:	RJU
						***************************************
Soil Allquot volu	ime:	( µL	Prep batch:		Analytical I	Satch: 449013
CONCENTRA	TION UNITS: mg/kg		Analytical Method	: SW-846 8	3260	
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane		0.258	Ιυ	0.00542	0.258
71-55-6	1,1,1-Trichloroethane		0.258	Ü	0.012	0.258
79-34-5	1,1,2,2-Tetrachloroethane		0.258	U	0.014	0.258
79-00-5	1,1,2-Trichloroethane		0.258	U	0.012	0.258
75-34-3	1,1-Dichloroethane		0.258	U	0.017	0.258
75-35-4	1,1-Dichloroethene		0.258	U	0.034	0.258
563-58-6	1,1-Dichloropropene		0.258	U	0.011	0.258
96-18-4	1,2,3-Trichloropropane		0.103	U	0.018	0.103
120-82-1	1,2,4-Trichlorobenzene		0.258	U	0.016	0.258
95-63-6	1,2,4-Trimethylbenzene		0.059	J	0.015	0.258
96-12-8	1,2-Dibromo-3-chloropropane		0.258	U	0.041	0.258
106-93-4	1,2-Dibromoethane		0.258	U	0.012	0.258
95-50-1	1,2-Dichlorobenzene		0.258	U	0.017	0.258
107-06-2	1,2-Dichloroethane		0.258	U	0.00676	0.258
78-87-5	1,2-Dichloropropane		0.258	U	0.00558	0.258
108-67-8	1,3,5-Trimethylbenzene		0.258	U	0.012	0.258
541-73-1	1,3-Dichlorobenzene		0.258	U	0.016	0.258
142-28-9	1,3-Dichloropropane		0.258	U	0.00924	0.258
106-46-7	1,4-Dichlorobenzene		0.258	Ų	0.021	0.258
594-20-7	2,2-Dichloropropane		0.258	U	0.060	0.258
78-93-3	2-Butanone		0.258	U	0.031	0.258
110-75-8	2-Chloroethylvinyl ether		0.258	U	0.012	0.258
95-49-8	2-Chlorotoluene		0.258	Ų	0.014	0.258
591-78-6	2-Hexanone		0.258	U	0.018	0.258
106-43-4	4-Chlorotoluene		0.258	U	0.016	0.258
99-87-6	4-Isopropyltoluene		0.258	U	0.014	0.258
108-10-1	4-Methyl-2-pentanone		0.258	U	0.018	0.258
67-64-1	Acetone		1.29	U	0.055	1.29
107-02-8	Acrolein		1.29	U	0.103	1.29
107-13-1	Acrylonitrile		1.29	U	0.055	1.29
71-43-2	Benzene		0.258	U	0.00707	0.258

$\sim \Delta$	MP	NO

T-21-F

Lab Name: GC	CAL Cont	ract:			***************************************	
_ab Code: LA0	024 Case No.:		SAS No.:		SDG No.: 211011	405
Matrix: (soil/wate						
	5.81 (g/ml) g		Lab Sample ID:	2110114050	04	
			Lab File ID: 211	***************************************	······································	
	LOW		300000000000000000000000000000000000000			
% Moisture: not	dec. 16.7		Date Collected:	01/13/11	Time: 14	45
GC Column: R	TX-VMS-30 ID: .25	(mm	Date Received:	01/14/11		
nstrument ID:	MSV11		Date Analyzed:	01/16/11	Time: 16	03
Soil Extract Volu	me:		Dilution Factor:	50	Analyst:	RJU
Soli Aliquot Volu	me:	( pL			Analytical	Datcii. 449013
CONCENTRAT	TION UNITS: mg/kg		Analytical Method	d: SW-846	3260	
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
				· •		
108-86-1	Bromobenzene		0.258	U	0.016	0.258
75-27-4	Bromodichloromethane		0.258	U	0.00775	0.258
75-25-2	Bromoform		0.258	U	0.012	0.258
74-83-9	Bromomethane		0.258	U	0.075	0.258
75-15-0	Carbon disulfide		0.258	U	0.024	0.258
56-23-5	Carbon tetrachloride		0.258	U	0.012	0.258
108-90-7	Chlorobenzene		0.258	U	0.00971	0.258
75-00-3	Chloroethane		0.258	U	0.034	0.258
67-66-3	Chloroform		0.286		0.013	0.258
74-87-3	Chloromethane		0.258	U	0.039	0.258
110-82-7	Cyclohexane		0.108	<del>                                     </del>	0.00909	0.258
124-48-1	Dibromochloromethane		0.258	<del>  U</del>	0.00723	0.258
74-95-3	Dibromomethane		0.258	Ū	0.016	0.258
75-71-8	Dichlorodifluoromethane		0.258	T U	0.00573	0.258
100-41-4	Ethylbenzene		0.258	1 0	0.011	0.258
87-68-3	Hexachlorobutadiene		0.179	<del>                                     </del>	0.012	0.258
98-82-8	Isopropylbenzene (Cumene)		0.236	<del>                                     </del>	0.010	0.258
79-20-9	Methyl Acetate		0.258	+ υ	0.018	0.258
74-88-4	Methyl iodide		0.258	1 0	0.068	0.258
108-87-2	Methylcyclohexane	· · · · · · · · · · · · · · · · · · ·	0.258	<del>                                     </del>	0.00847	0.258
75-09-2	Methylene chloride		0.516	<del>                                     </del>	0.018	0.516
91-20-3	Naphthalene		0.101	<del>  j</del>	0.043	0.258
100-42-5	Styrene		0.258	<del>l ů</del>	0.014	0.258
127-18-4	Tetrachloroethene	<del></del>	2.50	+	0.011	0.258
108-88-3	Toluene		0.258	<del>  U</del>	0.010	0.258
79-01-6	Trichloroethene		0.118	J	0.012	0.258
75-69-4	Trichlorofluoromethane		0.258	<del>  "</del>	0.00692	0.258
76-13-1	Trichlorotrifluoroethane		0.258	1 0	0.00092	0.258
108-05-4	Vinyl acetate		0.258	1 0	0.011	0.258
75-01-4	Vinyl acetate Vinyl chloride		0.258	1 0	0.00697	0.258
1330-20-7	Xylene (total)		0.516	1 0	0.0035	0.516
			0.250	<del>                                     </del>	0.00888	0.258
156-59-2	cis-1,2-Dichloroethene		0.250	1 3	0.00000	0.256

$\sim ^{\wedge}$		n	_	NC	٠
- 5A	W	М	_	N	ı

T-21-F	

Lab Name: GCAL	Contra	act:			***************************************	
Lab Code: LA024	Case No.:		SAS No.:		SDG No.: 211011	405
Matrix: (soil/water)	Solid					
Sample wt/vol: 5.8	81 (g/ml) g		Lab Sample ID:	2110114050	)4	
	_OW			0116/a8977		
	c. 16.7			01/13/11	Time: 14	45
	-VMS-30 ID: .25		Date Received:	01/14/11		
Instrument ID: MS	V11	***************************************	Date Analyzed:	01/16/11	Time: _16	603
Soil Extract Volume	):	( µL	Dilution Factor:	50	Analyst:	RJU
Soil Aliquot Volume	:	( µL	Prep Batch:	·····	Analytical	Batch: 449013
CONCENTRATIO	N UNITS: mg/kg		Analytical Method	d: SW-846 8	3260	
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
10061-01-5	cis-1,3-Dichloropropene		0.258	U	0.00749	0.258
136777-61-	m,p-Xylene		0.258	U	0.026	0.258
71-36-3	n-Butyl alcohol		1.29	U	0.945	1.29
104-51-8	n-Butylbenzene		0.258	U	0.018	0.258
103-65-1	n-Propylbenzene		0.258	U	0.014	0.258
95-47-6	o-Xylene		0.258	U	0.00976	0.258
135-98-8	sec-Butylbenzene		0.258	U	0.013	0.258
1634-04-4	tert-Butyl methyl ether (MTBE)		0.258	U	0.00862	0.258
98-06-6	tert-Butylbenzene	,	0.258	U	0.012	0.258
156-60-5	trans-1,2-Dichloroethene		0.258	U	0.010	0.258
10061-02-6	trans-1,3-Dichloropropene		0.258	U	0.011	0.258
110-57-6	trans-1,4-Dichloro-2-butene		0.258	U	0.029	0.258

NC-0	0-0.3	

Lab Name: GCA	NL Contr	act:		***************************************	******************************	
	4 Case No.:					405
Matrix: (soil/water)		***************************************				
Sample wt/vol: _4	71 (g/ml) g		Lab Sample ID:	2110114050	)5	
Level: (low/med)	LOW		Lab File ID: 211	I0116/a8978		
	ec. 17.1			01/13/11	Time: 14	.55
	K-VMS-30 ID: .25		,	***************************************	***************************************	······································
	•••••••	(111111		A		
Instrument ID: M			Date Analyzed:	01/16/11	Time: 16	27
Soil Extract Volum	ne:	(µL	Dilution Factor:	50	Analyst:	RJU
Soil Aliquot Volum	le:	( µL	Prep Batch:		Analytical	Batch: 449013
CONCENTRATION	ON UNITS: mg/kg		Analytical Method	d: SW-846	8260	
	COMPOUND		RESULT	Q	MDL	RL
CAS NO.	COMPOUND		RESULT	Q	WDL	KL.
630-20-6	1,1,1,2-Tetrachloroethane		0.320	U	0.00672	0.320
71-55-6	1,1,1-Trichloroethane		0.213	J	0.015	0.320
79-34-5	1,1,2,2-Tetrachloroethane		0.320	U	0.018	0.320
79-00-5	1,1,2-Trichloroethane		0.320	U	0.015	0.320
75-34-3	1,1-Dichloroethane		0.320	U	0.021	0.320
75-35-4	1,1-Dichloroethene		0.320	U	0.043	0.320
563-58-6	1,1-Dichloropropene		0.320	U	0.013	0.320
96-18-4	1,2,3-Trichloropropane		0.128	U	0.022	0.128
120-82-1	1,2,4-Trichlorobenzene		0.320	U	0.020	0.320
95-63-6	1,2,4-Trimethylbenzene		0.123	J	0.019	0.320
96-12-8	1,2-Dibromo-3-chloropropane		0.320	U	0.051	0.320
106-93-4	1,2-Dibromoethane		0.320	U	0.015	0.320
95-50-1	1,2-Dichlorobenzene		0.320	U	0.021	0.320
107-06-2	1,2-Dichloroethane		0.603		0.00839	0.320
78-87-5	1,2-Dichloropropane		0.320	U	0.00691	0.320
108-67-8	1,3,5-Trimethylbenzene		0.110	J	0.015	0.320
541-73-1	1,3-Dichlorobenzene		0.320	U	0.020	0.320
142-28-9	1,3-Dichloropropane		0.320	U	0.011	0.320
106-46-7	1,4-Dichlorobenzene		0.320	U	0.026	0.320
594-20-7	2,2-Dichloropropane		0.320	U	0.074	0.320
78-93-3	2-Butanone		0.320	U	0.039	0.320
110-75-8	2-Chloroethylvinyl ether		0.320	U	0.015	0.320
95-49-8	2-Chlorotoluene		0.320	U	0.017	0.320
591-78-6	2-Hexanone		0.320	U	0.022	0.320
106-43-4	4-Chlorotoluene		0.320	U	0.020	0.320
99-87-6	4-Isopropyltoluene		0.320	U	0.017	0.320
108-10-1	4-Methyl-2-pentanone		0.320	U	0.022	0.320
67-64-1	Acetone		1.60	U	0.068	1.60
107-02-8	Acrolein		1.60	U	0.128	1.60
107-13-1	Acrylonitrile		1.60	U	0.069	1.60
71-43-2	Benzene		0.217	J	0.00877	0.320

SAMPLE NO.

NC-0-0.3

Lab Name: GC	CAL Contract:				
	O24 Case No.:				405
Matrix: (soil/wate	er) Solid				
Sample wt/vol:	4.71 (g/ml) g	Lab Sample ID:	211011405	05	
_evel: (low/med)	LOW	Lab File ID: 211	0116/a8978		
	dec. 17.1	Date Collected:	01/13/11	Time: 14	55
	TX-VMS-30 ID: .25 (mm	Date Received:	***************************************		
nstrument ID:		Date Analyzed:	***************************************	Time: 162	27
400	me: ( µL	,		Analyst: I	
Soli Aliquot Volu	me: ( µL			Analytical I	Salch: 449013
CONCENTRA	TION UNITS: mg/kg	Analytical Method	d: SW-846	8260	
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
108-86-1	Bromobenzene	0.320	Τυ	0.019	0.320
75-27-4	Bromodichloromethane	0.320	U	0.00960	0.320
75-25-2	Bromoform	0.320	T U	0.015	0.320
74-83-9	Bromomethane	0.320	U	0.093	0.320
75-15-0	Carbon disulfide	0.320	U	0.030	0.320
56-23-5	Carbon tetrachloride	0.320	U	0.015	0.320
108-90-7	Chlorobenzene	0.320	U	0.012	0.320
75-00-3	Chloroethane	0.320	U	0.042	0.320
67-66-3	Chloroform	0.545		0.016	0.320
74-87-3	Chloromethane	0.320	U	0.048	0.320
110-82-7	Cyclohexane	0.183	J	0.011	0.320
124-48-1	Dibromochloromethane	0.320	U	0.00896	0.320
74-95-3	Dibromomethane	0.320	U	0.020	0.320
75-71-8	Dichlorodifluoromethane	0.320	U	0.00711	0.320
100-41-4	Ethylbenzene	0.818		0.013	0.320
87-68-3	Hexachlorobutadiene	0.320	U	0.015	0.320
98-82-8	Isopropylbenzene (Cumene)	0.942		0.012	0.320
79-20-9	Methyl Acetate	1.03		0.022	0.320
74-88-4	Methyl iodide	0.320	U	0.084	0.320
108-87-2	Methylcyclohexane	0.320	U	0.010	0.320
75-09-2	Methylene chloride	0.062	Ĵ	0.022	0.640
91-20-3	Naphthalene	0.490		0.053	0.320
100-42-5	Styrene	0.320	U	0.017	0.320
127-18-4	Tetrachloroethene	0.835		0.013	0.320
108-88-3	Toluene	0.227	J	0.013	0.320
79-01-6	Trichloroethene	1.02		0.015	0.320
75-69-4	Trichlorofluoromethane	0.320	U	0.00858	0.320
76-13-1	Trichlorotrifluoroethane	0.320	U	0.074	0.320
108-05-4	Vinyl acetate	0.320	U	0.014	0.320
75-01-4	Vinyl chloride	0.320	U	0.00864	0.320
1330-20-7	Xylene (total)	0.298	J	0.044	0.640
156-59-2	cis-1,2-Dichloroethene	0.320	U	0.011	0.320

NC-0-0.3	

Lab Name: GC	AL Contra	ict:		***************************************	30000000000000000000000000000000000000	
Lab Code: LA02	24 Case No.:				SDG No.: 21101	1405
Matrix: (soil/water	r) Solid		•			
Sample wt/vol:	4.71 (g/ml) g		Lab Sample ID:	2110114050	)5	
	LOW			0116/a8978		
	lec. 17.1			01/13/11	Time: 1	455
	X-VMS-30 ID: .25			01/14/11		
Instrument ID: N					Time: 1	
Soil Extract Volur	me:	( µL	Dilution Factor:			
Soil Aliquot Volun		( µL	Prep Batch:		Analytica	l Batch: 449013
CONCENTRAT	ION UNITS: mg/kg		Analytical Method	d: SW-846 8	3260	
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
10061-01-5	cis-1,3-Dichloropropene		0.320	U	0.00928	0.320
136777-61-	m,p-Xylene		0.122	J	0.032	0.320
71-36-3	n-Butyl alcohol		1.60	U	1.17	1.60
104-51-8	n-Butylbenzene		0.320	U	0.022	0.320
103-65-1	n-Propylbenzene		0.320	U	0.017	0.320
95-47-6	o-Xylene		0.176	J	0.012	0.320
135-98-8	sec-Butylbenzene		0.320	U	0.016	0.320
1634-04-4	tert-Butyl methyl ether (MTBE)		0.320	U	0.011	0.320
98-06-6	tert-Butylbenzene		0.320	U	0.015	0.320
156-60-5	trans-1,2-Dichloroethene		0.320	U	0.013	0.320
10061-02-6	trans-1,3-Dichloropropene		0.320	U	0.014	0.320
110-57-6	trans-1,4-Dichloro-2-butene		0.320	U	0.036	0.320

T-2-WEST

Lab Name: GC	CAL Contra	act:				
Lab Code: LA0	)24 Case No.:					405
Matrix: (soil/wate					***************************************	
Sample wt/vol:	6.21 (g/ml) g		Lab Sample ID:	211011405	06	
_evel: (low/med)	LOW		Lab File ID: 211	0118p/k991	1 .	
				***************************************		ns
	dec. 20.1			01/13/11	Time. 150	J3
GC Column: R	TX-VMS-30 ID: .25	(mm	Date Received:	01/14/11		identification (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
nstrument ID: _	MSV5	***************************************	Date Analyzed:	01/18/11	Time: 154	41
Soil Extract Volu	me:		Dilution Factor:	250	Analyst:	CLH
			***			
Soil Aliquot Volu	me:	( µL	Prep Batch:	······································	Analytical	Batch: 449157
CONCENTRA	TION UNITS: mg/kg		Analytical Method	: SW-846	8260	
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane		1.26	U	0.026	1.26
71-55-6	1,1,1-Trichloroethane		1.26	U	0.058	1.26
79-34-5	1,1,2,2-Tetrachloroethane		1.26	U	0.069	1.26
79-00-5	1,1,2-Trichloroethane		1.26	U	0.059	1.26
75-34-3	1,1-Dichloroethane		1.26	U	0.084	1.26
75-35-4	1,1-Dichloroethene		1.26	U	0.168	1.26
563-58-6	1,1-Dichloropropene		1.26	U	0.052	1.26
96-18-4	1,2,3-Trichloropropane		0.504	U	0.087	0.504
120-82-1	1,2,4-Trichlorobenzene		1.26	U	0.077	1.26
95-63-6	1,2,4-Trimethylbenzene		1.26	U	0.075	1.26
96-12-8	1,2-Dibromo-3-chloropropane		1.26	U	0.202	1.26
106-93-4	1,2-Dibromoethane		1.26	U	0.060	1.26
95-50-1	1,2-Dichlorobenzene		1.26	U	0.082	1.26
107-06-2	1,2-Dichloroethane		1.26	U	0.033	1.26
78-87-5	1,2-Dichloropropane		1.26	U	0.027	1.26
108-67-8	1,3,5-Trimethylbenzene		1.26	Ų	0.061	1.26
541-73-1	1,3-Dichlorobenzene		1.26	U	0.080	1.26
142-28-9	1,3-Dichloropropane		1.26	U	0.045	1.26
106-46-7	1,4-Dichlorobenzene		1.26	U	0.103	1.26
594-20-7	2,2-Dichloropropane		1.26	U	0.292	1.26
78-93-3	2-Butanone		1.26	U	0.152	1.26
110-75-8	2-Chloroethylvinyl ether		1.26	U	0.059	1.26
95-49-8	2-Chlorotoluene		1.26	Ų	0.066	1.26
591-78-6	2-Hexanone		1.26	U	0.085	1.26
106-43-4	4-Chlorotoluene		1.26	U	0.077	1.26
99-87-6	4-Isopropyltoluene		1.26	U	0.067	1.26
108-10-1	4-Methyl-2-pentanone		1.26	U	0.086	1.26
67-64-1	Acetone		6.29	U	0.267	6.29
107-02-8	Acrolein		6.29	U	0.504	6.29
107-13-1	Acrylonitrile		6.29	U	0.269	6.29
71-43-2	Benzene		1.26	U	0.034	1.26

1-2-00	EST	1
		1

Lab Name: GC/	AL Contract:				
	24 Case No.:				405
//atrix: (soil/water					
Sample wt/vol:	3.21 (g/ml) g	Lab Sample ID:	2110114050	)6	
evel: (low/med)	LOW	Lab File ID: 211	0118p/k9911	I	
% Moisture: not d	ec. 20.1		01/13/11	Time: 15	05
		Date Received:			
	X-VMS-30 ID: .25 (mm	*	***************************************		
nstrument ID: M	ISV5	Date Analyzed:	01/18/11	Time: 15	41
Soil Extract Volun	ne: ( µL	Dilution Factor:	250	Analyst:	CLH
Soil Aliquot Volum	ne: ( µL	Prep Batch:		Analytical	Batch: 449157
		Analytical Method			900000000000000000000000000000000000000
CONCENTRATI	ION UNITS: mg/kg		······		
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
108-86-1	Bromobenzene	1.26	ΙU	0.076	1.26
75-27-4	Bromodichloromethane	1.26	Ū	0.038	1.26
75-25-2	Bromoform	1.26	Ū	0.058	1.26
74-83-9	Bromomethane	1.26	U	0.368	1.26
75-15-0	Carbon disulfide	1.26	U	0.117	1.26
56-23-5	Carbon tetrachloride	1.26	U	0.059	1.26
108-90-7	Chlorobenzene	1.26	U	0.047	1.26
75-00-3	Chloroethane	1.26	U	0.166	1.26
67-66-3	Chloroform	1.26	U	0.062	1.26
74-87-3	Chloromethane	1.26	U	0.191	1.26
110-82-7	Cyclohexane	1.26	U	0.044	1.26
124-48-1	Dibromochloromethane	1.26	U	0.035	1.26
74-95-3	Dibromomethane	1.26	U	0.079	1.26
75-71-8	Dichlorodifluoromethane	1.26	U	0.028	1.26
100-41-4	Ethylbenzene	1.26	U	0.052	1.26
87-68-3	Hexachlorobutadiene	1.26	U	0.059	1.26
98-82-8	Isopropylbenzene (Cumene)	32.6		0.049	1.26
79-20-9	Methyl Acetate	1.26	U	0.086	1.26
74-88-4	Methyl iodide	1.26	U	0.330	1.26
108-87-2	Methylcyclohexane	1.26	U	0.041	1.26
75-09-2	Methylene chloride	2.52	U	0.088	2.52
91-20-3	Naphthalene	1.26	U	0.208	1.26
100-42-5	Styrene	1.26	U	0.066	1.26
127-18-4	Tetrachloroethene	1.26	U	0.052	1.26
108-88-3	Toluene	1.26	U	0.050	1.26
79-01-6	Trichloroethene	1.26	U	0.059	1.26
75-69-4	Trichlorofluoromethane	1.26	U	0.034	1.26
76-13-1	Trichlorotrifluoroethane	1.26	U	0.290	1.26
108-05-4	Vinyl acetate	1.26	U	0.056	1.26
75-01-4	Vinyl chloride	1.26	U	0.034	1.26
1330-20-7	Xylene (total)	2.52	U	0.173	2.52
156-59-2	cis-1,2-Dichloroethene	1.26	U	0.043	1.26

SAMPLE NO.

T-2-WEST

	ntract:	***************************************			
Lab Code: LA024 Case No.:		SAS No.:		SDG No.: 211011	405
Matrix: (soil/water) Solid		٠			
Sample wt/vol: 6.21 (g/ml) g		Lab Sample ID:	2110114050	06	
Level: (low/med) LOW		Lab File ID: 211	0118p/k991	1	
% Moisture: not dec. 20.1			01/13/11	Time: 15	505
GC Column: RTX-VMS-30 ID: .25		Date Received:	01/14/11		
Instrument ID: MSV5		Date Analyzed:	01/18/11	Time: 15	541
Soil Extract Volume:	( µL	Dilution Factor:	250		CLH
Soil Aliquot Volume:	(μL	Prep Batch:		Analytical	Batch: 449157
				220	
CONCENTRATION UNITS: mg/kg		Analytical Method	: SVV-846 8	5260	
CONCENTRATION UNITS: mg/kg  CAS NO. COMPOUND		RESULT		MDL	RL
		•			<i>RL</i>
CAS NO. COMPOUND		RESULT	Q	MDL	
CAS NO. COMPOUND  10061-01-5   cis-1,3-Dichloropropene		RESULT	Q	<b>MDL</b> 0.037	1.26
CAS NO.         COMPOUND           10061-01-5         cis-1,3-Dichloropropene           136777-61-         m,p-Xylene		1.26 1.26	Q U U	<b>MDL</b> 0.037 0.127	1.26 1.26
CAS NO.         COMPOUND           10061-01-5         cis-1,3-Dichloropropene           136777-61-         m,p-Xylene           71-36-3         n-Butyl alcohol		1.26 1.26 6.29	Q U U U U	MDL 0.037 0.127 4.61	1.26 1.26 6.29
CAS NO.         COMPOUND           10061-01-5         cis-1,3-Dichloropropene           136777-61-         m,p-Xylene           71-36-3         n-Butyl alcohol           104-51-8         n-Butylbenzene		1.26 1.26 6.29 1.26	<b>Q</b> U U U U U	MDL 0.037 0.127 4.61 0.088	1.26 1.26 6.29 1.26
CAS NO.         COMPOUND           10061-01-5         cis-1,3-Dichloropropene           136777-61-         m,p-Xylene           71-36-3         n-Butyl alcohol           104-51-8         n-Butylbenzene           103-65-1         n-Propylbenzene		1.26 1.26 6.29 1.26 1.26	Q U U U U U U U U U U U U U U U U U U U	MDL 0.037 0.127 4.61 0.088 0.068	1.26 1.26 6.29 1.26 1.26
CAS NO.         COMPOUND           10061-01-5         cis-1,3-Dichloropropene           136777-61-         m,p-Xylene           71-36-3         n-Butyl alcohol           104-51-8         n-Butylbenzene           103-65-1         n-Propylbenzene           95-47-6         o-Xylene		1.26 1.26 6.29 1.26 1.26 1.26	Q U U U U U U U U U U U U U U U U U U U	MDL  0.037  0.127  4.61  0.088  0.068  0.048	1.26 1.26 6.29 1.26 1.26
CAS NO.         COMPOUND           10061-01-5         cis-1,3-Dichloropropene           136777-61-         m,p-Xylene           71-36-3         n-Butyl alcohol           104-51-8         n-Butylbenzene           103-65-1         n-Propylbenzene           95-47-6         o-Xylene           135-98-8         sec-Butylbenzene		1.26 1.26 6.29 1.26 1.26 1.26 1.26	Q U U U U U U U U U U U U U U U U U U U	MDL  0.037  0.127  4.61  0.088  0.068  0.048  0.063	1.26 1.26 6.29 1.26 1.26 1.26
CAS NO.         COMPOUND           10061-01-5         cis-1,3-Dichloropropene           136777-61-         m,p-Xylene           71-36-3         n-Butyl alcohol           104-51-8         n-Butylbenzene           103-65-1         n-Propylbenzene           95-47-6         o-Xylene           135-98-8         sec-Butylbenzene           1634-04-4         tert-Butyl methyl ether (MTBE)		1.26 1.26 6.29 1.26 1.26 1.26 1.26 1.26	Q U U U U U U U U U U U U U U U U U U U	MDL  0.037  0.127  4.61  0.088  0.068  0.048  0.063  0.042	1.26 1.26 6.29 1.26 1.26 1.26 1.26
CAS NO.         COMPOUND           10061-01-5         cis-1,3-Dichloropropene           136777-61-         m,p-Xylene           71-36-3         n-Butyl alcohol           104-51-8         n-Butylbenzene           103-65-1         n-Propylbenzene           95-47-6         o-Xylene           135-98-8         sec-Butylbenzene           1634-04-4         tert-Butyl methyl ether (MTBE)           98-06-6         tert-Butylbenzene		1.26 1.26 6.29 1.26 1.26 1.26 1.26 1.26 1.26	Q U U U U U U U U U U U U U U U U U U U	MDL  0.037 0.127 4.61 0.088 0.068 0.048 0.063 0.042 0.060	1.26 1.26 6.29 1.26 1.26 1.26 1.26 1.26 1.26

SAMPLE N	0
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T-6-FLOOR

Lab Name: GC	CAL Cont	ract:				
Lab Code: LAC	024 Case No.:					405
Matrix: (soil/wate	er) Solid					
Sample wt/vol:	4.77 (g/ml) g	~~~~	Lab Sample ID:	2110114050	17	
_evel: (low/med)	LOW		Lab File ID: 21	10116/a8982		
% Moisture: not			Date Collected:	01/13/11	Time: 15	535
GC Column: R	TX-VMS-30 ID: .25		Date Received:	01/14/11	•••••	
nstrument ID:			Date Analyzed:		Timo: 19	200
em				***************************************	•••••	••••••
Soil Extract Volu	me:	_ ( μL	Dilution Factor:	100	Analyst:	CLH
Soil Aliquot Volu	me:	( µL	Prep Batch:		Analytical	Batch: 449013
CONCENTRA	TION UNITS: mg/kg		Analytical Method	d: SW-846 8	3260	
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane		0.709	Τυ	0.015	0.709
71-55-6	1,1,1-Trichloroethane		0.709	U	0.033	0.709
79-34-5	1,1,2,2-Tetrachloroethane		0.709	U	0.039	0.709
79-00-5	1,1,2-Trichloroethane		0.709	U	0.033	0.709
75-34-3	1,1-Dichloroethane		0.709	U	0.047	0.709
75-35-4	1,1-Dichloroethene		0.709	U	0.095	0.709
563-58-6	1,1-Dichloropropene		0.709	U	0.029	0.709
96-18-4	1,2,3-Trichloropropane		0.283	U	0.049	0.283
120-82-1	1,2,4-Trichlorobenzene		0.709	U	0.043	0.709
95-63-6	1,2,4-Trimethylbenzene		0.709	U	0.042	0.709
96-12-8	1,2-Dibromo-3-chloropropane		0.709	U	0.114	0.709
106-93-4	1,2-Dibromoethane		0.709	U	0.034	0.709
95-50-1	1,2-Dichlorobenzene		0.709	U	0.046	0.709
107-06-2	1,2-Dichloroethane		0.709	U	0.019	0.709
78-87-5	1,2-Dichloropropane		0.709	U	0.015	0.709
108-67-8	1,3,5-Trimethylbenzene		0.709	U	0.034	0.709
541-73-1	1,3-Dichlorobenzene		0.709	U	0.045	0.709
142-28-9	1,3-Dichloropropane		0.709	U	0.025	0.709
106-46-7	1,4-Dichlorobenzene		0.709	U	0.058	0.709
594-20-7	2,2-Dichloropropane		0.709	U	0.164	0.709
78-93-3	2-Butanone		0.709	U	0.085	0.709
110-75-8	2-Chloroethylvinyl ether		0.709	U	0.033	0.709
95-49-8	2-Chlorotoluene		0.709	U	0.037	0.709
591-78-6	2-Hexanone		0.709	U	0.048	0.709
106-43-4	4-Chlorotoluene		0.709	U	0.043	0.709
99-87-6	4-Isopropyltoluene		0.709	U	0.038	0.709
108-10-1	4-Methyl-2-pentanone		0.709	U	0.048	0.709
67-64-1	Acetone		3.54	U	0.150	3.54
107-02-8	Acrolein		3.54	U	0.283	3.54
107-13-1	Acrylonitrile		3.54	U	0.152	3.54
71-43-2	Benzene		1.33		0.019	0.709

SAMPLE NO.

T-6-FLOOR

Lab Name: GC	CAL Contract:				
Lab Code: LA0	O24 Case No.: S				105
Matrix: (soil/wate				***************************************	
Sample wt/vol:	4.77 (g/ml) g	Lab Sample ID:	2110114050	07	
Level: (low/med)		Lab File ID: 211	0116/a8982		
% Moisture: not		Date Collected:	01/13/11	Time: 153	35
	TX-VMS-30 ID: .25 (mm	Date Received:			
		Date Analyzed:		Time: 180	
Instrument ID:		*	······································	······································	***************************************
	ime: ( µL			Analyst: (	
Soil Aliquot Volu	me: ( µL	Prep Batch:		Analytical E	Batch: 449013
CONCENTRA	TION UNITS: mg/kg	Analytical Method	I: SW-846	3260	
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
108-86-1	Bromobenzene	0.709	Τυ	0.043	0.709
75-27-4	Bromodichloromethane	0.709	T U	0.021	0.709
75-25-2	Bromoform	0.709	<del>                                     </del>	0.033	0.709
74-83-9	Bromomethane	0.709	1 0	0.207	0.709
75-15-0	Carbon disulfide	0.709	<del>  U</del>	0.066	0.709
56-23-5	Carbon tetrachloride	0.709	1 0	0.033	0.709
108-90-7	Chlorobenzene	0.709	U	0.027	0.709
75-00-3	Chloroethane	0.709	U	0.093	0.709
67-66-3	Chloroform	0.709	U	0.035	0.709
74-87-3	Chloromethane	0.709	U	0.107	0.709
110-82-7	Cyclohexane	0.709	U	0.025	0.709
124-48-1	Dibromochloromethane	0.709	U	0.020	0.709
74-95-3	Dibromomethane	0.709	U	0.044	0.709
75-71-8	Dichlorodifluoromethane	0.709	U	0.016	0.709
100-41-4	Ethylbenzene	9.44		0.029	0.709
87-68-3	Hexachlorobutadiene	0.709	U	0.033	0.709
98-82-8	Isopropylbenzene (Cumene)	12.6		0.028	0.709
79-20-9	Methyl Acetate	0.709	U	0.048	0.709
74-88-4	Methyl iodide	0.709	U	0.186	0.709
108-87-2	Methylcyclohexane	0.709	U	0.023	0.709
75-09-2	Methylene chloride	1.42	U	0.049	1.42
91-20-3	Naphthalene	0.709	U	0.117	0.709
100-42-5	Styrene	0.709	U	0.037	0.709
127-18-4	Tetrachloroethene	0.709	U	0.029	0.709
108-88-3	Toluene	1.00		0.028	0.709
79-01-6	Trichloroethene	0.709	U	0.033	0.709
75-69-4	Trichlorofluoromethane	0.709	U	0.019	0.709
76-13-1	Trichlorotrifluoroethane	0.709	U	0.163	0.709
108-05-4	Vinyl acetate	0.709	U	0.031	0.709
75-01-4	Vinyl chloride	0.709	U	0.019	0.709
1330-20-7	Xylene (total)	1.95		0.097	1.42
156-59-2	cis-1,2-Dichloroethene	0.709	U	0.024	0.709

SAMPLE NO.

T-6-FLOOR

Lab Name: GC	CC	ontract:				
Lab Code: LA0	24 Case No.:		SAS No.:		SDG No.: 211	011405
Matrix: (soil/wate	r) Solid					
Sample wt/vol:	4.77 (g/ml) g		Lab Sample ID:	211011405	07	
	LOW			10116/a8982		
	dec. 26.0			01/13/11	Time:	1535
	TX-VMS-30 ID: .25			01/14/11		
Instrument ID:	MSV11		Date Analyzed:	01/16/11	Time:	1809
Soil Extract Volur	me:		Dilution Factor:			st: CLH
	me:					ical Batch: 449013
	TION UNITS: mg/kg		Analytical Metho	d: SW-846	8260	
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
10061-01-5	cis-1,3-Dichloropropene		0.709	U	0.021	0.709
136777-61-	m,p-Xylene		0.709	U	0.071	0.709
71-36-3	n-Butyl alcohol		3.54	U	2.59	3.54
104-51-8	n-Butylbenzene		0.709	U	0.049	0.709
103-65-1	n-Propylbenzene		0.709	U	0.038	0.709
95-47-6	o-Xylene		1.95		0.027	0.709
135-98-8	sec-Butylbenzene		0.709	U	0.036	0.709
1634-04-4	tert-Butyl methyl ether (MTBE	:)	0.234	J	0.024	0.709
98-06-6	tert-Butylbenzene		0.709	U	0.034	0.709
156-60-5	trans-1,2-Dichloroethene		0.709	U	0.029	0.709
10061-02-6	trans-1,3-Dichloropropene		0.709	U	0.031	0.709
110-57-6	trans-1,4-Dichloro-2-butene		0.709	U	0.080	0.709

Lab Name: GC	CAL Contract:			reacceptable Wisepresper	
Lab Code: LA0					405
Matrix: (soil/wate	er) Solid				
Sample wt/vol:	5.13 (g/ml) g	Lab Sample ID:	2110114050	8	
Level: (low/med)		Lab File ID: 2110	0116/a8984		
% Moisture: not		Date Collected:	01/13/11	Time: 15	55
	TX-VMS-30 ID: .25 (mm	Date Received:		·············	
	······································	Date Analyzed:			57
	MSV11	**			
3oil Extract Volu	me: ( µL	Dilution Factor:	10000	Analyst: (	CLH
Soil Aliquot Volu	me: ( µL	Prep Batch:		Analytical I	Batch: 449013
CONCENTRAT	TION UNITS: mg/kg	Analytical Method	: SW-846 8	3260	
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	66.3	1 U I	1.39	66.3
71-55-6	1,1,1-Trichloroethane	66.3	Ü	3.06	66.3
79-34-5	1.1.2.2-Tetrachloroethane	66.3	U	3.66	66.3
79-00-5	1,1,2-Trichloroethane	66.3	U	3.12	66.3
75-34-3	1,1-Dichloroethane	66.3	U	4.40	66.3
75-35-4	1,1-Dichloroethene	66.3	U	8.84	66.3
563-58-6	1,1-Dichloropropene	66.3	U	2.76	66.3
96-18-4	1,2,3-Trichloropropane	26.5	U	4.60	26.5
120-82-1	1,2,4-Trichlorobenzene	66.3	U	4.04	66.3
95-63-6	1,2,4-Trimethylbenzene	66.3	U	3.95	66.3
96-12-8	1,2-Dibromo-3-chloropropane	66.3	U	10.6	66.3
106-93-4	1,2-Dibromoethane	66.3	U	3.17	66.3
95-50-1	1,2-Dichlorobenzene	66.3	U	4.31	66.3
107-06-2	1,2-Dichloroethane	66.3	U	1.74	66.3
78-87-5	1,2-Dichloropropane	66.3	U	1.43	66.3
108-67-8	1,3,5-Trimethylbenzene	66.3	U	3.20	66.3
541-73-1	1,3-Dichlorobenzene	66.3	U	4.23	66.3
142-28-9	1,3-Dichloropropane	66.3	U	2.37	66.3
106-46-7	1,4-Dichlorobenzene	66.3	U	5.45	66.3
594-20-7	2,2-Dichloropropane	66.3	U	15.4	66.3
78-93-3	¹ 2-Butanone	66.3	U	7.99	66.3
110-75-8	2-Chloroethylvinyl ether	66.3	U	3.10	66.3
95-49-8	2-Chlorotoluene	66.3	U	3.50	66.3
591-78-6	2-Hexanone	66.3	U	4.49	66.3
106-43-4	4-Chlorotoluene	66.3	Ų	4.06	66.3
99-87-6	4-Isopropyltoluene	66.3	U	3.53	66.3
108-10-1	4-Methyl-2-pentanone	66.3	U	4.52	66.3
67-64-1	Acetone	331	U	14.1	331
107-02-8	Acrolein	331	U	26.5	331
107-13-1	Acrylonitrile	331	U	14.2	331
71-43-2	Benzene	18.2	J	1.82	66.3

T-6-EAST	
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Lab Name: G0	CAL Contract:				
	024 Case No.:			SDG No.: 211011	405
Matrix: (soil/wate		***************************************	***************************************	***************************************	
Sample wt/vol:	5.13 (g/ml) g	Lab Sample ID:	2110114050	<b>)8</b> ,	
_evel: (low/med)		Lab File ID: 211	10116/a8984		,
% Moisture: not		Date Collected:	01/13/11	Time: 15	55
	***************************************		***************************************		
	RTX-VMS-30 ID: .25 (mm	Date Received:	***************************************		
nstrument ID:	MSV11	Date Analyzed:			57
Soil Extract Volu	ume: ( µL	Dilution Factor:	10000	Analyst:	CLH
Soil Aliquot Volu	ume: ( μL	Prep Batch:		Analytical	Batch: 449013
CONCENTRA	TION LINUTO.	Analytical Method	d: SW-846 8	3260	
	TION UNITS: mg/kg		***************************************		
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
108-86-1	Bromobenzene	66.3	U	3.99	66.3
75-27-4	Bromodichloromethane	66.3	U	1.99	66.3
75-25-2	Bromoform	66.3	U	3.06	66.3
74-83-9	Bromomethane	66.3	U	19.4	66.3
75-15-0	Carbon disulfide	66.3	U	6.17	66.3
56-23-5	Carbon tetrachloride	66.3	U	3.13	66.3
108-90-7	Chlorobenzene	66.3	U	2.49	66.3
75-00-3	Chloroethane	66.3	U	8.74	66.3
67-66-3	Chloroform	66.3	U	3.26	66.3
74-87-3	Chloromethane	66.3	U	10.0	66.3
110-82-7	Cyclohexane	66.3	U	2.33	66.3
124-48-1	Dibromochloromethane	66.3	U	1.86	66.3
74-95-3	Dibromomethane	66.3	U	4.16	66.3
75-71-8	Dichlorodifluoromethane	66.3	U	1.47	66.3
100-41-4	Ethylbenzene	272		2.73	66.3
87-68-3	Hexachlorobutadiene	66.3	U	3.09	66.3
98-82-8	Isopropylbenzene (Cumene)	1660		2.59	66.3
79-20-9	Methyl Acetate	66.3	U	4.53	66.3
74-88-4	Methyl iodide	66.3	Ü	17.4	66.3
108-87-2	Methylcyclohexane	66.3	U	2.17	66.3
75-09-2	Methylene chloride	133	U	4.61	133
91-20-3	Naphthalene	66.3	U	10.9	66.3
100-42-5	Styrene	21.8	J	3.50	66.3
127-18-4	Tetrachloroethene	66.3	U	2.74	66.3
108-88-3	Toluene	37.0	J	2.65	66.3
79-01-6	Trichloroethene	66.3	U	3.10	66.3
75-69-4	Trichlorofluoromethane	66.3	U	1.78	66.3
76-13-1	Trichlorotrifluoroethane	66.3	U	15.2	66.3
108-05-4	Vinyl acetate	66.3	U	2.94	66.3
75-01-4	Vinyl chloride	66.3	U	1.79	66.3
1330-20-7	Xylene (total)	167		9.10	133
156-59-2	cis-1,2-Dichloroethene	66.3	U	2.28	66.3

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Lab Name: GC/	AL Contra	act:				
_ab Code: LA02	Case No.:				SDG No.: 21101	1405
Matrix: (soil/water	) Solid					
Sample wt/vol:	5.13 (g/ml) g		Lab Sample ID:	2110114050	)8	
	LOW			10116/a8984		
% Moisture: not dec. 26.5				01/13/11	Time: 1	555
	X-VMS-30 ID: .25			01/14/11		
nstrument ID: _M			Date Analyzed:			357
Soil Extract Volun	ne:	(µL	Dilution Factor:	10000	Analyst:	CLH
Soil Aliquot Volum	ne:	(µL	Prep Batch:		Analytical	Batch: 449013
CONCENTRATI	ION UNITS: mg/kg		Analytical Metho	d: SW-846	3260	
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
10061-01-5	cis-1,3-Dichloropropene		66.3	U	1.92	66.3
136777-61-	m,p-Xylene		66.3	U	6.67	66.3
71-36-3	n-Butyl alcohol		331	U	243	331
104-51-8	n-Butylbenzene		66.3	U	4.63	66.3
103-65-1	n-Propylbenzene		66.3	U	3.59	66.3
95-47-6	o-Xylene		167		2.51	66.3
135-98-8	sec-Butylbenzene		66.3	U	3.33	66.3
1634-04-4	tert-Butyl methyl ether (MTBE)		66.3	U	2.21	66.3
98-06-6	tert-Butylbenzene		66.3	U	3.14	66.3
156-60-5	trans-1,2-Dichloroethene		66.3	U	2.68	66.3
10061-02-6	trans-1,3-Dichloropropene		66.3	U	2.92	66.3
110-57-6	trans-1,4-Dichloro-2-butene		66.3	U	7.53	66.3

SAMPLE NO.

T-6-SOUTH

Lab Name: GC	CAL Contrac	:t:						
	Case No.:					05		
//atrix: (soil/wate			***************************************					
Sample wt/vol:	5.23 (g/ml) g		Lab Sample ID:	2110114050	)9			
.evel: (low/med)	evel: (low/med) LOW							
6 Moisture: not dec. 26.1			Date Collected: 01/13/11 Time: 1615					
GC Column: RTX-VMS-30 ID: .25 (mm				***************************************				
Instrument ID: MSV11				Time: 192	22			
				Analyst: (				
Soil Extract Volume: ( μL			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************				
Soil Aliquot Volume: ( μL		(µL	Prep Batch:		Analytical E	Batch: 449013		
CONCENTRA	TION UNITS: mg/kg		Analytical Method	d: SW-846 8	3260			
CAS NO.	COMPOUND		RESULT	Q	MDL	RL		
630-20-6	1,1,1,2-Tetrachloroethane		64.7	U	1.36	64.7		
71-55-6	1,1,1-Trichloroethane		64.7	Ū	2.99	64.7		
79-34-5	1,1,2,2-Tetrachloroethane		64.7	U	3.57	64.7		
79-00-5	1,1,2-Trichloroethane		64.7	U	3.04	64.7		
75-34-3	1,1-Dichloroethane		64.7	U	4.30	64.7		
75-35-4	1,1-Dichloroethene		64.7	U	8.63	64.7		
563-58-6	1,1-Dichloropropene		64.7	U	2.69	64.7		
96-18-4	1,2,3-Trichloropropane		25.9	Ų	4.49	25.9		
120-82-1	1,2,4-Trichlorobenzene		64.7	U	3.95	64.7		
95-63-6	1,2,4-Trimethylbenzene		64.7	U	3.86	64.7		
96-12-8	1,2-Dibromo-3-chloropropane		64.7	U	10.4	64.7		
106-93-4	1,2-Dibromoethane		64.7	U	3.09	64.7		
95-50-1	1,2-Dichlorobenzene		64.7	U	4.21	64.7		
107-06-2	1,2-Dichloroethane		64.7	U	1.70	64.7		
78-87-5	1,2-Dichloropropane		64.7	T U	1.40	64.7		
108-67-8	1,3,5-Trimethylbenzene		64.7	U	3.12	64.7		
541-73-1	1,3-Dichlorobenzene		64.7	U	4.13	64.7		
142-28-9	1,3-Dichloropropane		64.7	U	2.32	64.7		
106-46-7	1,4-Dichlorobenzene		64.7	U	5.32	64.7		
594-20-7	2,2-Dichloropropane		64.7	U	15.0	64.7		
78-93-3	2-Butanone		64.7	U	7.80	64.7		
110-75-8	2-Chloroethylvinyl ether		64.7	U	3.03	64.7		
95-49-8	2-Chlorotoluene		64.7	U	3.42	64.7		
591-78-6	2-Hexanone		64.7	U	4.39	64.7		
106-43-4	4-Chlorotoluene		64.7	U	3.96	64.7		
99-87-6	4-Isopropyltoluene		64.7	U	3.44	64.7		
108-10-1	4-Methyl-2-pentanone		64.7	U	4.41	64.7		
67-64-1	Acetone		324	U	13.7	324		
107-02-8	Acrolein		324	U	25.9	324		
107-13-1	Acrylonitrile		324	U	13.8	324		
71-43-2	Benzene		13.8	J	1.77	64.7		
L				<del></del>		~		

SAMPLE NO.

T-6-SOUTH

Lab Name: GCA	AL Contract:		***************************************	***************************************		
Lab Code: LA02	24 Case No.:	SAS No.:		SDG No.: 211011	405	
Matrix: (soil/water						
Sample wt/vol: _5	5.23 (g/ml) g	Lab Sample ID: 21101140509				
Level: (low/med) LOW		Lab File ID: 21	10116/a8985			
% Moisture: not de		200000000000	01/13/11 Time: 1615			
GC Column: RTX-VMS-30 ID: .25 (mm		Date Received:				
Instrument ID: MSV11		Date Analyzed:	***************************************	Time: 19	22	
Soil Extract Volume: ( µL		Dilution Factor:		Analyst:		
	ne: ( µL	Prep Batch:	***************************************		Batch: 449013	
oon / mquot voidii	(PE				Daton: 440010	
CONCENTRATI	ION UNITS: mg/kg	Analytical Metho	a: SVV-846 8	3260		
CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
108-86-1	Bromobenzene	64.7	Τυ	3.90	64.7	
75-27-4	Bromodichloromethane	64.7	<del>                                     </del>	1.94	64.7	
75-25-2	Bromoform	64.7	1 0	2.99	64.7	
74-83-9	Bromomethane	64.7	<del>                                     </del>	18.9	64.7	
75-15-0	Carbon disulfide	64.7	<del>                                     </del>	6.02	64.7	
56-23-5	Carbon tetrachloride	64.7	U	3.05	64.7	
108-90-7	Chlorobenzene	64.7	T U	2.43	64.7	
75-00-3	Chloroethane	64.7	1 0	8.53	64.7	
67-66-3	Chloroform	18.4	<del>                                     </del>	3.18	64.7	
74-87-3	Chloromethane	64.7	T U	9.80	64.7	
110-82-7	Cyclohexane	64.7	U	2.28	64.7	
124-48-1	Dibromochloromethane	64.7	U	1.81	64.7	
74-95-3	Dibromomethane	64.7	U	4.06		
75-71-8	Dichlorodifluoromethane	64.7	<del>  U</del>	1.44	64.7	
100-41-4		321		2.67	64.7	
87-68-3	Ethylbenzene Hexachlorobutadiene	64.7	U	3.02	64.7	
		543	+	2.52	64.7	
98-82-8 79-20-9	Isopropylbenzene (Cumene)	64.7	U	4.43	64.7	
79-20-9	Methyl ledide	64.7	1 0	17.0	64.7 64.7	
108-87-2	Methyloide	64.7	1 0	2.12	64.7	
75-09-2	Methylcyclohexane  Methylene chloride	129	U	4.50	129	
91-20-3		16.4	J	10.7	64.7	
100-42-5	Naphthalene	15.2	- J			
127-18-4	Styrene	64.7	1 0	3.42	64.7	
	Tetrachloroethene			2.68	64.7	
108-88-3 79-01-6	Triphlereethone	23.8	J	2.59	64.7	
	Trichlorofluoromethono	64.7	U	3.03	64.7	
75-69-4	Trichlorofluoromethane Trichlorotrifluoroethane	64.7	U	1.73	64.7	
76-13-1		64.7	U	14.9	64.7	
108-05-4 75-01-4	Vinyl chlorido	64.7	U	2.87	64.7	
75-01-4	Vinyl chloride	64.7	U	1.75	64.7	
1330-20-7	Xylene (total)	68.6	J	8.88	129	
156-59-2	cis-1,2-Dichloroethene	64.7	U	2.23	64.7	

T-6-SOL	JTH	

Lab Name: GC	AL Con	ntract:						
_ab Code: _LA0	24 Case No.:					405		
Matrix: (soil/wate	r) Solid							
Sample wt/vol:	5.23 (g/ml) g		Lab Sample ID:	2110114050	9			
	LOW		Lab File ID: 21	10116/a8985				
% Moisture: not dec. 26.1			Date Collected:	ate Collected: 01/13/11 Time: 1615				
	TX-VMS-30 ID: .25		Date Received:	01/14/11				
nstrument ID:	MSV11		Date Analyzed:	01/16/11	Time: 19	922		
Soil Extract Volume: ( µL		( µL	Dilution Factor:	: 10000 Analyst: CLH				
Soil Aliquot Volume: (μL			Prep Batch:	Batch: Analytical Batch: 449013				
	TION UNITS: mg/kg		Analytical Metho	d: SW-846 8	260			
CAS NO.	COMPOUND		RESULT	Q	MDL	RL		
10061-01-5	cis-1,3-Dichloropropene		64.7	U	1.88	64.7		
136777-61-	m,p-Xylene		64.7	Ü	6.51	64.7		
71-36-3	n-Butyl alcohol		324	U	237	324		
104-51-8	n-Butylbenzene		64.7	U	4.52	64.7		
103-65-1	n-Propylbenzene		64.7	U	3.51	64.7		
95-47-6	o-Xylene		68.6		2.45	64.7		
135-98-8	sec-Butylbenzene		64.7	U	3.25	64.7		
1634-04-4	tert-Butyl methyl ether (MTBE)		64.7	U	2.16	64.7		
98-06-6	tert-Butylbenzene		64.7	U	3.07	64.7		
156-60-5	trans-1,2-Dichloroethene		64.7	U	2.61	64.7		
10061-02-6	trans-1,3-Dichloropropene		64.7	U	2.85	64.7		
110-57-6	trans-1,4-Dichloro-2-butene		64.7	U	7.35	64.7		

SAMPLE NO.

T-6-NORTH

Lab Name: GC	CAL Contrac	xt:			200000000000000000000000000000000000000		
_ab Code: _LA0	Case No.:					405	
Matrix: (soil/wate	er) Solid						
Sample wt/vol:	5.87 (g/ml) g		Lab Sample ID: 21101140510				
_evel: (low/med)	LOW						
	6 Moisture: not dec. 22.5			Date Collected: 01/13/11 Time: 1625			
GC Column: RTX-VMS-30 ID: .25 (mm			Date Received:	01/14/11			
Instrument ID: MSV11		Date Analyzed:	01/16/11	Time: 16	51		
Soil Extract Volume: ( μL		Dilution Factor:	***************************************		RJU		
	me:				Analytical		
	y		Analytical Method				
CONCENTRAT	TION UNITS: mg/kg		, mary nour motified	. 211-0-10			
CAS NO.	COMPOUND		RESULT	Q	MDL	RL	
630-20-6	1,1,1,2-Tetrachloroethane		0.275	U	0.00577	0.275	
71-55-6	1,1,1-Trichloroethane		0.087	J	0.013	0.275	
79-34-5	1,1,2,2-Tetrachloroethane		0.275	U	0.015	0.275	
79-00-5	1,1,2-Trichloroethane		0.275	U	0.013	0.275	
75-34-3	1,1-Dichloroethane		0.275	U	0.018	0.275	
75-35-4	1,1-Dichloroethene		0.275	U	0.037	0.275	
563-58-6	1,1-Dichloropropene		0.275	U	0.011	0.275	
96-18-4	1,2,3-Trichloropropane		0.110	U	0.019	0.110	
120-82-1	1,2,4-Trichlorobenzene		0.275	U	0.017	0.275	
95-63-6	1,2,4-Trimethylbenzene		0.230	J	0.016	0.275	
96-12-8	1,2-Dibromo-3-chloropropane		0.275	U	0.044	0.275	
106-93-4	1,2-Dibromoethane		0.275	U	0.013	0.275	
95-50-1	1,2-Dichlorobenzene		0.275	U	0.018	0.275	
107-06-2	1,2-Dichloroethane		0.275	U	0.00720	0.275	
78-87-5	1,2-Dichloropropane		0.275	Ų	0.00593	0.275	
108-67-8	1,3,5-Trimethylbenzene		0.094	J	0.013	0.275	
541-73-1	1,3-Dichlorobenzene		0.275	U	0.018	0.275	
142-28-9	1,3-Dichloropropane		0.275	U	0.00983	0.275	
106-46-7	1,4-Dichlorobenzene		0.275	U	0.023	0.275	
594-20-7	2,2-Dichloropropane		0.275	U	0.064	0.275	
78-93-3	2-Butanone		0.275	U	0.033	0.275	
110-75-8	2-Chloroethylvinyl ether		0.275	U	0.013	0.275	
95-49-8	2-Chlorotoluene		0.275	U	0.015	0.275	
591-78-6	2-Hexanone		0.275	U	0.019	0.275	
106-43-4	4-Chlorotoluene		0.275	U	0.017	0.275	
99-87-6	4-Isopropyltoluene		0.275	U	0.015	0.275	
108-10-1	4-Methyl-2-pentanone		0.275	U	0.019	0.275	
67-64-1	Acetone		1.37	U	0.058	1.37	
107-02-8	Acrolein		1.37	U	0.110	1.37	
107-13-1	Acrylonitrile		1.37	U	0.059	1.37	
71-43-2	Benzene		2.94		0.00753	0.275	

SAMPLE NO.

T-6-NORTH

Lab Name: GC	Contract:				
	24 Case No.:				105
//atrix: (soil/wate	r) Solid				
Sample wt/vol:	5.87 (g/ml) g	Lab Sample ID:	2110114051	0 .	
.evel: (low/med)		Lab File ID: 21	10116/a8979		
6 Moisture: not o	da. 22.5	Date Collected:			25
			***************************************		
***************************************	TX-VMS-30 ID: .25 (mm	Date Received:	***************************************		
nstrument ID:	MSV11	Date Analyzed:	×		51
oil Extract Volu	me: ( µL	Dilution Factor:	50	Analyst: I	RJU
oil Aliquot Volui	me: ( µL	Prep Batch:		Analytical I	Batch: 449013
	TION UNITS: mg/kg	Analytical Metho			
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
108-86-1	Bromobenzene	0.275	U	0.017	0.275
75-27-4	Bromodichloromethane	0.275	U	0.00824	0.275
75-25-2	Bromoform	0.275	U	0.013	0.275
74-83-9	Bromomethane	0.275	U	0.080	0.275
75-15-0	Carbon disulfide	0.275	U	0.026	0.275
56-23-5	Carbon tetrachloride	0.275	U	0.013	0.275
108-90-7	Chlorobenzene	0.275	U	0.010	0.275
75-00-3	Chloroethane	0.275	U	0.036	0.275
67-66-3	Chloroform	0.293		0.014	0.275
74-87-3	Chloromethane	0.275	U	0.042	0.275
110-82-7	Cyclohexane	0.063	J	0.00967	0.275
124-48-1	Dibromochloromethane	0.275	U	0.00769	0.275
74-95-3	Dibromomethane	0.275	U	0.017	0.275
75-71-8	Dichlorodifluoromethane	0.275	U	0.00610	0.275
100-41-4	Ethylbenzene	1.83		0.011	0.275
87-68-3	Hexachlorobutadiene	0.275	U	0.013	0.275
98-82-8	Isopropylbenzene (Cumene)	0.221	J	0.011	0.275
79-20-9	Methyl Acetate	0.275	U	0.019	0.275
74-88-4	Methyl iodide	0.275	U	0.072	0.275
108-87-2	Methylcyclohexane	0.275	U	0.00901	0.275
75-09-2	Methylene chloride	0.549	U	0.019	0.549
91-20-3	Naphthalene	0.427		0.045	0.275
100-42-5	Styrene	0.275	U	0.015	0.275
127-18-4	Tetrachloroethene	0.275	U	0.011	0.275
108-88-3	Toluene	0.271	J	0.011	0.275
79-01-6	Trichloroethene	0.174	J	0.013	0.275
75-69-4	Trichlorofluoromethane	0.275	U	0.00736	0.275
76-13-1	Trichlorotrifluoroethane	0.275	U	0.063	0.275
108-05-4	Vinyl acetate	0.275	U	0.012	0.275
75-01-4	Vinyl chloride	0.275	U	0.00742	0.275
1330-20-7	Xylene (total)	1.02		0.038	0.549
156-59-2	cis-1,2-Dichloroethene	0.275	U	0.00945	0.275

SAMPLE NO.

T-6-NORTH

Lab Name: GC	Co	ntract:			***************************************		
_ab Code: LA0	24 Case No.:				OG No.: 21101	1405	
Matrix: (soil/wate	r) Solid						
Sample wt/vol:	5.87 (g/ml) g		Lab Sample ID:	21101140510			
	LOW		Lab File ID: 211	10116/a8979		·	
	dec. 22.5		Date Collected: 01/13/11 Time: 1625				
GC Column: RTX-VMS-30 ID: .25 (mm			Date Received:	01/14/11			
Instrument ID: MSV11		Date Analyzed:	01/16/11	01/16/11 Time: 1651			
Soil Extract Volume: ( µL			r: 50 Analyst: RJU				
Soil Aliquot Volume: ( µL			Prep Batch:			Batch: 449013	
CONCENTRATION UNITS: mg/kg			Analytical Method	d: SW-846 82	60		
CAS NO.	COMPOUND		RESULT	Q	MDL	RL	
10061-01-5	cis-1,3-Dichloropropene		0.275	U	0.00796	0.275	
136777-61-	m,p-Xylene		0.664		0.028	0.275	
71-36-3	n-Butyl alcohol		1.37	U	1.01	1.37	
104-51-8	n-Butylbenzene		0.275	U	0.019	0.275	
103-65-1	n-Propylbenzene		0.155	J	0.015	0.275	
95-47-6	o-Xylene		0.357		0.010	0.275	
135-98-8	sec-Butylbenzene		0.275	U	0.014	0.275	
1634-04-4	tert-Butyl methyl ether (MTBE	)	0.479		0.00917	0.275	
98-06-6	tert-Butylbenzene		0.275	U	0.013	0.275	
156-60-5	trans-1,2-Dichloroethene		0.275	U	0.011	0.275	
10061-02-6	trans-1,3-Dichloropropene		0.275	U	0.012	0.275	
110-57-6	trans-1.4-Dichloro-2-butene		0.275	U	0.031	0.275	

BLIN	DUP	

Lab Name: GC	CAL Contra	ct:						
	024 Case No.:					405		
Matrix: (soil/wate		***************************************	***************************************		***************************************			
Sample wt/vol:	5.71 (g/ml) g		Lab Sample ID:	2110114051	1			
_evel: (low/med)	LOW		Lab File ID: 211	0116/a8986				
	doc. 24.1		Date Collected: 01/13/11 Time: 0000					
	TX-VMS-30 ID: .25			***************************************				
***************************************		,	^		Time: 10	.46		
nstrument ID: MSV11			· ·		Time: 19			
Soil Extract Volume:		( µL	Dilution Factor:	10000	Analyst:	CLH		
Soil Aliquot Volu	me:	( µL	Prep Batch:		Analytical	Batch: 449013		
	TION UNITS: mg/kg		Analytical Method: SW-846 8260					
	COMPOUND		RESULT	Q	MDL	RL		
	001111 001115		7,20027					
630-20-6	1,1,1,2-Tetrachloroethane		57.7	U	1.21	57.7		
71-55-6	1,1,1-Trichloroethane		57.7	U	2.67	57.7		
79-34-5	1,1,2,2-Tetrachloroethane	-	57.7	U	3.19	57.7		
79-00-5	1,1,2-Trichloroethane		57.7	U	2.71	57.7		
75-34-3	1,1-Dichloroethane		57.7	U	3.83	57.7		
75-35-4	1,1-Dichloroethene		57.7	U	7.70	57.7		
563-58-6	1,1-Dichloropropene		57.7	U	2.40	57.7		
96-18-4	1,2,3-Trichloropropane		23.1	U	4.01	23.1		
120-82-1	1,2,4-Trichlorobenzene		57.7	U	3.52	57.7		
95-63-6	1,2,4-Trimethylbenzene		57.7	U	3.44	57.7		
96-12-8	1,2-Dibromo-3-chloropropane		57.7	U	9.25	57.7		
106-93-4	1,2-Dibromoethane		57.7	U	2.76	57.7		
95-50-1	1,2-Dichlorobenzene		57.7	U	3.75	57.7		
107-06-2	1,2-Dichloroethane		57.7	U	1.51	57.7		
78-87-5	1,2-Dichloropropane		57.7	U	1.25	57.7		
108-67-8	1,3,5-Trimethylbenzene		57.7	U	2.78	57.7		
541-73-1	1,3-Dichlorobenzene		57.7	U	3.68	57.7		
142-28-9	1,3-Dichloropropane		57.7	U	2.07	57.7		
106-46-7	1,4-Dichlorobenzene		57.7	U	4.74	57.7		
594-20-7	2,2-Dichloropropane		57.7	U	13.4	57.7		
78-93-3	2-Butanone		57.7	U	6.96	57.7		
110-75-8	2-Chloroethylvinyl ether		57.7	U	2.70	57.7		
95-49-8	2-Chlorotoluene		57.7	U	3.05	57.7		
591-78-6	2-Hexanone		57.7	U	3.91	57.7		
106-43-4	4-Chlorotoluene		57.7	U	3.53	57.7		
99-87-6	4-Isopropyltoluene		57.7	U	3.07	57.7		
108-10-1	4-Methyl-2-pentanone		57.7	U	3.94	57.7		
67-64-1	Acetone		289	U	12.2	289		
107-02-8	Acrolein		289	U	23.1	289		
107-13-1	Acrylonitrile		289	U	12.4	289		
71-43-2	Benzene		13.1	J	1.58	57.7		

IC

BLIND	DUP	

Lab Name: G0	CAL Contract:				
	024 Case No.:				105
Matrix: (soil/wate				***************************************	
Sample wt/vol:	5.71 (g/ml) g	Lab Sample ID:	2110114051	1	
	LOW		110116/a8986		
			***************************************		
% Moisture: not	dec. 24.1	Date Collected:	01/13/11	Time: 000	00
GC Column: R	TX-VMS-30 ID: .25 (r	nm Date Received:	01/14/11		
nstrument ID:	MSV11	Date Analyzed:	01/16/11	Time: 194	16
Soil Extract Volu	ıme:	μL Dilution Factor:	10000	Analyst:	CLH
	me:				Batch: 449013
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Analytical Metho			<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
CONCENTRA	TION UNITS: mg/kg	/ marytical wear	ou. 044-040 (		
CAS NO.	COMPOUND	RESULT	Q .	MDL	RL
108-86-1	Bromobenzene	57.7	Ιυ	3.47	57.7
75-27-4	Bromodichloromethane	57.7		1.73	57.7
75-25-2	Bromoform	57.7	<del>                                     </del>	2.67	57.7
74-83-9	Bromomethane	57.7	U	16.9	57.7
75-15-0	Carbon disulfide	57.7	<del>                                     </del>	5.37	57.7
56-23-5	Carbon tetrachloride	57.7	<del>  U</del>	2.72	57.7
108-90-7	Chlorobenzene	57.7	<del>                                     </del>	2.17	57.7
75-00-3	Chloroethane	57.7		7.61	57.7
67-66-3	Chloroform	57.7	<del>  U</del>	2.84	57.7
74-87-3	Chloromethane	57.7	U	8.74	57.7
110-82-7	Cyclohexane	57.7	T U	2.03	57.7
124-48-1	Dibromochloromethane	57.7	<del>                                     </del>	1.62	57.7
74-95-3	Dibromomethane	57.7	<del>                                     </del>	3.62	57.7
75-71-8	Dichlorodifluoromethane	57.7	T U	1.28	57.7
100-41-4	Ethylbenzene	156	+	2.38	57.7
87-68-3	Hexachlorobutadiene	57.7	<del>  U</del>	2.69	57.7
98-82-8	Isopropylbenzene (Cumene)	924	<del>-</del>	2.25	57.7
79-20-9	Methyl Acetate	57.7	U	3.95	57.7
74-88-4	Methyl iodide	57.7	U	15.1	57.7
108-87-2	Methylcyclohexane	57.7	T U	1.89	57.7
75-09-2	Methylene chloride	115	<del>                                     </del>	4.02	115
91-20-3	Naphthalene	15.7	J	9.52	57.7
100-42-5	Styrene	15.2	J	3.05	57.7
127-18-4	Tetrachloroethene	57.7	T U	2.39	57.7
108-88-3	Toluene	19.2	J	2.31	57.7
79-01-6	Trichloroethene	57.7	U	2.70	57.7
75-69-4	Trichlorofluoromethane	57.7	U	1.55	57.7
76-13-1	Trichlorotrifluoroethane	57.7	U	13.3	57.7
108-05-4	Vinyl acetate	57.7	U	2.56	57.7
75-01-4	Vinyl chloride	57.7	<del>  0</del>	1.56	57.7
1330-20-7	Xylene (total)	98.9	J	7.92	115
156-59-2	cis-1,2-Dichloroethene	57.7	U	1.99	57.7

SAMPLE NO.

BLIND DUP

Lab Name: GCAL	Cont	ract:		~		
Lab Code: LA024	Case No.:				SDG No.: 211011	405
Matrix: (soil/water)	Solid					
Sample wt/vol: 5.7	'1 (g/ml) g		Lab Sample ID:	2110114051	1	
	ow			I0116/a8986		
	. 24.1			01/13/11	Time: 00	000
	VMS-30 ID: .25			01/14/11		
Instrument ID: MS	V11		Date Analyzed:			946
Soil Extract Volume		(μL	Dilution Factor:	10000	Analyst:	CLH
Soil Aliquot Volume	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	( µL	Prep Batch:		Analytical	Batch: 449013
CONCENTRATIO	N UNITS: mg/kg		Analytical Method	d: SW-846 8	3260	
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
10061-01-5	cis-1,3-Dichloropropene		57.7	U	1.67	57.7
136777-61-	m,p-Xylene		57.7	U	5.81	57.7
71-36-3	n-Butyl alcohol		289	U	211	289
104-51-8	n-Butylbenzene		57.7	U	4.03	57.7
103-65-1	n-Propylbenzene		57.7	U	3.13	57.7
95-47-6	o-Xylene		98.9		2.18	57.7
135-98-8	sec-Butylbenzene		57.7	U	2.90	57.7
1634-04-4	tert-Butyl methyl ether (MTBE)		57.7	U	1.93	57.7
98-06-6	tert-Butylbenzene		57.7	U	2.74	57.7
156-60-5	trans-1,2-Dichloroethene		57.7	U	2.33	57.7
10061-02-6	trans-1,3-Dichloropropene		57.7	U	2.54	57.7
110-57-6	trans-1,4-Dichloro-2-butene		57.7	. U	6.56	57.7

SAMPLE NO.
 SC-W

Lab Nama: CO	Λ1 Cantra	4.				
	AL Contrac					405
	24 Case No.:	••••••	SAS No.:		SDG No.: 211011	405
Matrix: (soil/wate						
Sample wt/vol:	5.85 (g/ml) g		Lab Sample ID:	211011405	12	
evel: (low/med)	LOW		Lab File ID: 21	10116/a8980		
	dec. 23.5		Date Collected:	01/13/11	Time: 16	45
	TX-VMS-30 ID: .25		Date Received:		••••••	
nstrument ID:	MSV11				Time: 17	15
Soil Extract Volui	me:	(µL	Dilution Factor:	50	Analyst:	RJU
Soil Aliquot Volur	me:	(µL	Prep Batch:		Analytical	Batch: 449013
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Analytical Metho			
CONCENTRAT	TION UNITS: mg/kg		your moure			
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane		0.279	U	0.00586	0.279
71-55-6	1,1,1-Trichloroethane		0.279	U	0.013	0.279
79-34-5	1,1,2,2-Tetrachloroethane		0.279	U	0.015	0.279
79-00-5	1,1,2-Trichloroethane		0.279	U	0.013	0.279
75-34-3	1,1-Dichloroethane		0.279	U	0.019	0.279
75-35-4	1,1-Dichloroethene		0.279	U	0.037	0.279
563-58-6	1,1-Dichloropropene		0.279	U	0.012	0.279
96-18-4	1,2,3-Trichloropropane	.,	0.112	U	0.019	0.112
120-82-1	1,2,4-Trichlorobenzene		0.279	U	0.017	0.279
95-63-6	1,2,4-Trimethylbenzene		0.111	J	0.017	0.279
96-12-8	1,2-Dibromo-3-chloropropane		0.279	U	0.045	0.279
106-93-4	1,2-Dibromoethane		0.279	U	0.013	0.279
95-50-1	1,2-Dichlorobenzene		0.279	U	0.018	0.279
107-06-2	1,2-Dichloroethane		0.279	U	0.00731	0.279
78-87-5	1,2-Dichloropropane		0.279	U	0.00603	0.279
108-67-8	1,3,5-Trimethylbenzene		0.057	J	0.013	0.279
541-73-1	1,3-Dichlorobenzene		0.279	U	0.018	0.279
142-28-9	1,3-Dichloropropane		0.279	U	0.00999	0.279
106-46-7	1,4-Dichlorobenzene		0.279	U	0.023	0.279
594-20-7	2,2-Dichloropropane		0.279	U	0.065	0.279
78-93-3	2-Butanone		0.279	U	0.034	0.279
110-75-8	2-Chloroethylvinyl ether		0.279	U	0.013	0.279
95-49-8	2-Chlorotoluene		0.279	U	0.015	0.279
591-78-6	2-Hexanone		0.279	U	0.019	0.279
106-43-4	4-Chlorotoluene		0.279	U	0.017	0.279
99-87-6	4-Isopropyltoluene		0.279	Ú	0.015	0.279
108-10-1	4-Methyl-2-pentanone		0.279	U	0.019	0.279
67-64-1	Acetone		1.40	U	0.059	1.40
107-02-8	Acrolein		1.40	U	0.112	1.40
107-13-1	Acrylonitrile		1.40	U	0.060	1.40
71 /3.2	Benzene		0.102	<del>                                     </del>	0.00765	0.270

SAMPLE NO					
	$\sim$		-	_	110
	-	Δn	$n \sim 1$	_	NII I

SC-W	

Lab Name: G0	CAL Contract:				
	024 Case No.:				105
Matrix: (soil/wate		-	***************************************		
Sample wt/vol:	5.85 (g/ml) g	Lab Sample ID:	211011405	12	
	) LOW		I0116/a8980		
	dec. 23.5		01/13/11	Time: 164	15
GC Column: R	TX-VMS-30 ID: .25 (mm	Date Received:	01/14/11		
nstrument ID:	MSV11	Date Analyzed:	01/16/11	Time: 17	15
Soil Extract Volu	ıme: (μL	Dilution Factor:	50	Analyst: I	RJU
Soli Aliquot Volu	ıme: ( µL	Prep Batch:		Analytical	Batch: 449013
CONCENTRA	TION UNITS: mg/kg	Analytical Method	d: SW-846	8260	
CAS NO.		RESULT	Q	MDL	RL
108-86-1	Bromobenzene	0.279	U	0.017	0.279
75-27-4	Bromodichloromethane	0.279	U	0.00838	0.279
75-25-2	Bromoform	0.279	U	0.013	0.279
74-83-9	Bromomethane	0.279	U	0.082	0.279
75-15-0	Carbon disulfide	0.279	U	0.026	0.279
56-23-5	Carbon tetrachloride	0.279	U	0.013	0.279
108-90-7	Chlorobenzene	0.279	U	0.010	0.279
75-00-3	Chloroethane	0.279	U	0.037	0.279
67-66-3	Chloroform	0.279	U	0.014	0.279
74-87-3	Chloromethane	0.279	U	0.042	0.279
110-82-7	Cyclohexane	0.208	J	0.00983	0.279
124-48-1	Dibromochloromethane	0.279	U	0.00782	0.279
74-95-3	Dibromomethane	0.279	U	0.018	0.279
75-71-8	Dichlorodifluoromethane	0.279	U	0.00620	0.279
100-41-4	Ethylbenzene	0.144	J	0.012	0.279
87-68-3	Hexachlorobutadiene	0.279	U	0.013	0.279
98-82-8	Isopropylbenzene (Cumene)	0.328		0.011	0.279
79-20-9	Methyl Acetate	0.279	Ų	0.019	0.279
74-88-4	Methyl iodide	0.279	U	0.073	0.279
108-87-2	Methylcyclohexane	0.279	U	0.00916	0.279
75-09-2	Methylene chloride	0.558	U	0.019	0.558
91-20-3	Naphthalene	0.118	J	0.046	0.279
100-42-5	Styrene	0.279	U	0.015	0.279
127-18-4	Tetrachloroethene	0.279	U	0.012	0.279
108-88-3	Toluene	0.279	U	0.011	0.279
79-01-6	Trichloroethene	0.279	U	0.013	0.279
75-69-4	Trichlorofluoromethane	0.279	U	0.00748	0.279
76-13-1	Trichlorotrifluoroethane	0.279	U	0.064	0.279
108-05-4	Vinyl acetate	0.279	U	0.012	0.279
75-01-4	Vinyl chloride	0.279	U	0.00754	0.279
1330-20-7	Xylene (total)	0.226	J	0.038	0.558
156-59-2	cis-1,2-Dichloroethene	0.279	U	0.00960	0.279

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SC-W

Lab Name: GCA	L Contra	ct:		************************************		
Lab Code: LA024					DG No.: 211011	405
Matrix: (soil/water)	Solid					
Sample wt/vol: _5.	85 (g/ml) g		Lab Sample ID:	2110114051	2	
Level: (low/med)			Lab File ID: 21	10116/a8980		
% Moisture: not de	c. 23.5		Date Collected:	01/13/11	Time: 16	645
	VMS-30 ID: .25	(mm	Date Received:	01/14/11		
Instrument ID: MS			Date Analyzed:	01/16/11	Time: _17	'15
Soil Extract Volume	e:	( µL	Dilution Factor:			RJU
		( µL	Prep Batch:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Analytical	Batch: 449013
	ON UNITS: mg/kg		Analytical Metho	d: SW-846 8	260	
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
10061-01-5	cis-1,3-Dichloropropene		0.279	U	0.00810	0.279
136777-61-	m,p-Xylene		0.117	J	0.028	0.279
71-36-3	n-Butyl alcohol		1.40	U	1.02	1.40
104-51-8	n-Butylbenzene		0.279	U	0.019	0.279
103-65-1	n-Propylbenzene		0.279	U	0.015	0.279
95-47-6	o-Xylene		0.109	J	0.011	0.279
135-98-8	sec-Butylbenzene		0.279	U	0.014	0.279
1634-04-4	tert-Butyl methyl ether (MTBE)		0.279	U	0.00932	0.279
98-06-6	tert-Butylbenzene		0.279	U	0.013	0.279
156-60-5	trans-1,2-Dichloroethene		0.279	U	0.011	0.279
10061-02-6	trans-1,3-Dichloropropene		0.279	U	0.012	0.279
110-57-6	trans-1,4-Dichloro-2-butene		0.279	U	0.032	0.279

SA	MP	ΙF	NO

SC-E		

Lab Name: GC	AL Contra	ot:				
_ab Code: _LA0	24 Case No.:					105
Matrix: (soil/wate	r) Solid					
Sample wt/vol:	4.93 (g/ml) g		Lab Sample ID:	2110114051	13	
_evel: (low/med)	LOW		Lab File ID: 211	0116/a8981		
% Moisture: not o			Date Collected:	01/13/11	Time: 16	55
GC Column: R1	TX-VMS-30 ID: .25	(mm	Date Received:	01/14/11		
nstrument ID: N	######################################		Date Analyzed:	**********************************	Time: 173	39
60000				***************************************		
SOII EXTRACT VOIUI	me:	( µL	Dilution Factor:			KJU
Soil Aliquot Volur	me:	(µL	Prep Batch:	••••••	Analytical I	Batch: 449013
CONCENTRAT	TION UNITS: mg/kg		Analytical Method	d: SW-846 8	3260	
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane		0.344	Ιυ	0.00722	0.344
71-55-6	1,1,1-Trichloroethane		0.344	T U	0.016	0.344
79-34-5	1,1,2,2-Tetrachloroethane		0.344	U	0.019	0.344
79-00-5	1,1,2-Trichloroethane		0.344	U	0.016	0.344
75-34-3	1,1-Dichloroethane		0.344	U	0.023	0.344
75-35-4	1,1-Dichloroethene		0.344	U	0.046	0.344
563-58-6	1,1-Dichloropropene		0.344	T U	0.014	0.344
96-18-4	1,2,3-Trichloropropane		0.138	U	0.024	0.138
120-82-1	1,2,4-Trichlorobenzene		0.344	U	0.021	0.344
95-63-6	1,2,4-Trimethylbenzene		0.074	J	0.020	0.344
96-12-8	1,2-Dibromo-3-chloropropane		0.344	U	0.055	0.344
106-93-4	1,2-Dibromoethane		0.344	U	0.016	0.344
95-50-1	1,2-Dichlorobenzene		0.344	U	0.022	0.344
107-06-2	1,2-Dichloroethane		0.344	U	0.00901	0.344
78-87-5	1,2-Dichloropropane		0.344	U	0.00743	0.344
108-67-8	1,3,5-Trimethylbenzene		0.344	U	0.017	0.344
541-73-1	1,3-Dichlorobenzene		0.344	U	0.022	0.344
142-28-9	1,3-Dichloropropane		0.344	U	0.012	0.344
106-46-7	1,4-Dichlorobenzene		0.344	U	0.028	0.344
594-20-7	2,2-Dichloropropane		0.344	U	0.080	0.344
78-93-3	2-Butanone		0.344	U	0.041	0.344
110-75-8	2-Chloroethylvinyl ether		0.344	U	0.016	0.344
95-49-8	2-Chlorotoluene		0.344	U	0.018	0.344
591-78-6	2-Hexanone		0.344	U	0.023	0.344
106-43-4	4-Chlorotoluene		0.344	U	0.021	0.344
99-87-6	4-Isopropyltoluene		0.344	U	0.018	0.344
108-10-1	4-Methyl-2-pentanone		0.344	U	0.023	0.344
67-64-1	Acetone		1.72	U	0.073	1.72
107-02-8	Acrolein		1.72	U	0.138	1.72
107-13-1	Acrylonitrile		1.72	U	0.074	1.72
71-43-2	Benzene		0.344	U	0.00942	0.344

SAMPLE NO.
 SC-E

Lab Name: GC	CAL Contract:		***************************************		
	O24 Case No.:				405
/latrix: (soil/wate					
Sample wt/vol:	4.93 (g/ml) g	⊸ Lab Sample ID:	2110114051	3	
.evel: (low/med)		Lab File ID: 21	***************************************		
					55
	dec. 26.3			Tille. 10	
GC Column: R	TX-VMS-30 ID: .25 (mm	Date Received:	01/14/11		
nstrument ID:I	MSV11	Date Analyzed:	01/16/11	Time: 17	39
oil Extract Volu	ıme: ( µL	Dilution Factor:	50	Analyst:	RJU
					Batch: 449013
oli Aliquot volu	me: ( µL	Prep Batch:		Analytical	Datch. 449013
CONCENTRAT	TION UNITS: mg/kg	Analytical Metho	od: SW-846 8	3260	
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
108-86-1	Bromobenzene	0.344	U U	0.021	0.344
75-27-4	Bromodichloromethane	0.344	U	0.010	0.344
75-25-2	Bromoform	0.344	U	0.016	0.344
74-83-9	Bromomethane	0.344	U	0.100	0.344
75-15-0	Carbon disulfide	0.344	U	0.032	0.344
56-23-5	Carbon tetrachloride	0.344	U	0.016	0.344
108-90-7	Chlorobenzene	0.344	U	0.013	0.344
75-00-3	Chloroethane	0.344	U	0.045	0.344
67-66-3	Chloroform	0.344	U	0.017	0.344
74-87-3	Chloromethane	0.344	U	0.052	0.344
110-82-7	Cyclohexane	0.106	J	0.012	0.344
124-48-1	Dibromochloromethane	0.344	U	0.00963	0.344
74-95-3	Dibromomethane	0.344	U	0.022	0.344
75-71-8	Dichlorodifluoromethane	0.344	U	0.00763	0.344
100-41-4	Ethylbenzene	0.195	J	0.014	0.344
87-68-3	Hexachlorobutadiene	0.344	U	0.016	0.344
98-82-8	Isopropylbenzene (Cumene)	0.427		0.013	0.344
79-20-9	Methyl Acetate	0.344	U	0.024	0.344
74-88-4	Methyl iodide	0.344	U	0.090	0.344
108-87-2	Methylcyclohexane	0.344	U	0.011	0.344
75-09-2	Methylene chloride	0.688	U	0.024	0.688
91-20-3	Naphthalene	0.164	J	0.057	0.344
100-42-5	Styrene	0.344	U	0.018	0.344
127-18-4	Tetrachloroethene	0.344	U	0.014	0.344
108-88-3	Triplereethone	0.344	U	0.014	0.344
79-01-6	Trichlorothene	0.344	U	0.016	0.344
75-69-4 76-13-1	Trichlorofluoromethane	0.344	U	0.00922	0.344
76-13-1	Trichlorotrifluoroethane	0.344	U	0.079	0.344
108-05-4	Vinyl ablarida	0.344	U	0.015	0.344
75-01-4	Vilga (total)	0.344	U	0.00928	0.344
1330-20-7	Xylene (total)	0.187	J	0.047	0.688
Inh hu 7	LOIG TO A LUCKIO CONTRACTO	1 () 3/1/		11 (117)	. 11.377

SA	N/I	DI	F	NC

S	C-E	

Lab Name: GCAL	Contra	act:				
Lab Code: LA024					SDG No.: 211011	405
Matrix: (soil/water)						
Sample wt/vol: 4.9	93 (g/ml) g	·····	Lab Sample ID:	2110114051	3	
Level: (low/med) L	.ow		Lab File ID: 211	0116/a8981		
% Moisture: not dec	26.3		Date Collected:	01/13/11	Time: 16	55
*	VMS-30 ID: .25			01/14/11		
Instrument ID: MS	V11	***************************************			Time: 17	
Soil Extract Volume	:	( µL	Dilution Factor:	50	Analyst:	RJU
Soil Aliquot Volume		( µL	Prep Batch:		Analytical	Batch: 449013
CONCENTRATIO	N UNITS: mg/kg		Analytical Method	d: SW-846 8	3260	
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
10061-01-5	cis-1,3-Dichloropropene	-	0.344	U	0.00997	0.344
136777-61-	m,p-Xylene		0.100	J	0.035	0.344
71-36-3	n-Butyl alcohol		1.72	U	1.26	1.72
104-51-8	n-Butylbenzene		0.344	U	0.024	0.344
103-65-1	n-Propylbenzene		0.344	U	0.019	0.344
95-47-6	o-Xylene		0.087	J	0.013	0.344
135-98-8	sec-Butylbenzene		0.344	U	0.017	0.344
1634-04-4	tert-Butyl methyl ether (MTBE)		0.344	U	0.011	0.344
98-06-6	tert-Butylbenzene		0.344	U	0.016	0.344
156-60-5	trans-1,2-Dichloroethene		0.344	U	0.014	0.344
10061-02-6	trans-1,3-Dichloropropene		0.344	U	0.015	0.344
110-57-6	trans-1,4-Dichloro-2-butene		0.344	U	0.039	0.344

SAMPLE NO.

**EQUIPMENT BLANK** 

Lab Name: GC	AL Contract:				
	24 Case No.:				405
Matrix: (soil/wate	r) Water				
Sample wt/vol:	5 (g/ml) mL	Lab Sample ID:	2110114051	4	
_evel: (low/med)		Lab File ID: 2110	0116/a8966		
	dec.	Date Collected:			10
	TX-VMS-30 ID: .25 (mm	Date Received:	*************************		
nstrument ID:	MSV11	Date Analyzed:	01/16/11	Time: 11	42
Soil Extract Volur	me: ( µL	Dilution Factor:	1	Analyst:	RJU
	me: ( µL	-		Analytical	Batch: 449012
	· · · · · · · · · · · · · · · · · · ·				
CONCENTRAT	TION UNITS: mg/L	Analytical Method	: SVV-846 8	3260	
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.00500	U	0.000113	0.00500
71-55-6	1,1,1-Trichloroethane	0.00500	U	0.000106	0.00500
79-34-5	1,1,2,2-Tetrachloroethane	0.00500	U	0.000072	0.00500
79-00-5	1,1,2-Trichloroethane	0.00500	U	0.000095	0.00500
75-34-3	1,1-Dichloroethane	0.00500	Ų	0.000030	0.00500
75-35-4	1,1-Dichloroethene	0.00500	U	0.000164	0.00500
563-58-6	1,1-Dichloropropene	0.00500	U	0.000067	0.00500
96-18-4	1,2,3-Trichloropropane	0.00500	U	0.000100	0.00500
120-82-1	1,2,4-Trichlorobenzene	0.00500	U	0.000119	0.00500
95-63-6	1,2,4-Trimethylbenzene	0.00500	U	0.000027	0.00500
96-12-8	1,2-Dibromo-3-chloropropane	0.00500	U	0.000082	0.00500
106-93-4	1,2-Dibromoethane	0.00500	U	0.000046	0.00500
95-50-1	1,2-Dichlorobenzene	0.00500	U	0.000078	0.00500
107-06-2	1,2-Dichloroethane	0.00500	U	0.000086	0.00500
78-87-5	1,2-Dichloropropane	0.00500	U	0.000064	0.00500
108-67-8	1,3,5-Trimethylbenzene	0.00500	U	0.000021	0.00500
541-73-1	1,3-Dichlorobenzene	0.00500	Ų	0.000098	0.00500
142-28-9	1,3-Dichloropropane	0.00500	U	0.000041	0.00500
106-46-7	1,4-Dichlorobenzene	0.00500	U	0.000118	0.00500
594-20-7	2,2-Dichloropropane	0.00500	U	0.000117	0.00500
78-93-3	2-Butanone	0.00500	· U	0.000093	0.00500
110-75-8	2-Chloroethylvinyl ether	0.00500	U	0.000515	0.00500
95-49-8	2-Chlorotoluene	0.00500	U	0.000044	0.00500
591-78-6	2-Hexanone	0.00500	U	0.000503	0.00500
106-43-4	4-Chlorotoluene	0.00500	U	0.000052	0.00500
99-87-6	4-Isopropyltoluene	0.00500	U	0.000037	0.00500
108-10-1	4-Methyl-2-pentanone	0.00500	U	0.000065	0.00500
67-64-1	Acetone	0.025	U	0.00115	0.025
107-02-8	Acrolein	0.025	U	0.00169	0.025
107-13-1	Acrylonitrile	0.025	U	0.00100	0.025
71-43-2	Benzene	0.00500	U	0.000054	0.00500

SAMPLE NO.

EQUIPMENT BLANK

Lab Name: GC	AL Contract:			***************************************	
Lab Code: LA0					405
Matrix: (soil/wate	r) Water				
Sample wt/vol:	5 (g/ml) mL	Lab Sample ID:	21101140514		
Level: (low/med)	LOW	Lab File ID: 211	0116/a8966		
% Moisture: not o	dec.	Date Collected:	01/13/11	Time: 17	10
	TX-VMS-30 ID: .25 (mm	Date Received:	01/14/11		
Instrument ID: N	MSV11	Date Analyzed:	01/16/11	Time: 11	42
Soil Extract Volur	me: ( µL	Dilution Factor:			RJU
	me: ( µL	Prep Batch:		Analytical	Batch: 449012
		Analytical Method	d: SW-846 82	260	
	TION UNITS: mg/L	DE0.44 T			<b>5</b> 7
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
108-86-1	Bromobenzene	0.00500	U	0.000084	0.00500
75-27-4	Bromodichloromethane	0.00500	U	0.000053	0.00500
75-25-2	Bromoform	0.00500	U	0.000104	0.00500
74-83-9	Bromomethane	0.00500	U	0.000264	0.00500
75-15-0	Carbon disulfide	0.00500	U	0.000143	0.00500
56-23-5	Carbon tetrachloride	0.00500	U	0.000148	0.00500
108-90-7	Chlorobenzene	0.00500	U	0.000027	0.00500
75-00-3	Chloroethane	0.00500	U	0.000351	0.00500
67-66-3	Chloroform	0.00500	U	0.000056	0.00500
74-87-3	Chloromethane	0.00500	U	0.000088	0.00500
110-82-7	Cyclohexane	0.00500	U	0.000064	0.00500
124-48-1	Dibromochloromethane	0.00500	U	0.000040	0.00500
74-95-3	Dibromomethane	0.00500	U	0.000184	0.00500
75-71-8	Dichlorodifluoromethane	0.00500	U	0.000096	0.00500
100-41-4	Ethylbenzene	0.00500	U	0.000062	0.00500
87-68-3	Hexachlorobutadiene	0.00500	U	0.000690	0.00500
98-82-8	Isopropylbenzene (Cumene)	0.00500	U	0.000034	0.00500
79-20-9	Methyl Acetate	0.00500	U	0.00142	0.00500
74-88-4	Methyl iodide	0.00500	U	0.000243	0.00500
108-87-2	Methylcyclohexane	0.00500	U	0.000072	0.00500
75-09-2	Methylene chloride	0.010	U	0.000327	0.010
91-20-3	Naphthalene	0.00500	U	0.000081	0.00500
100-42-5	Styrene	0.00500	U	0.000050	0.00500
127-18-4	Tetrachloroethene	0.00500	U	0.000121	0.00500
108-88-3	Toluene	0.00500	U	0.000059	0.00500
79-01-6	Trichloroethene	0.00500	U	0.000061	0.00500
75-69-4	Trichlorofluoromethane	0.00500	U	0.000123	0.00500
76-13-1	Trichlorotrifluoroethane	0.00500	U	0.000127	0.00500
108-05-4	Vinyl acetate	0.00500	U	0.000202	0.00500
75-01-4	Vinyl chloride	0.00500	U	0.000093	0.00500
1330-20-7	Xylene (total)	0.010	U	0.000058	0.010
156-59-2	cis-1,2-Dichloroethene	0.00500	U	0.000061	0.00500

SAMPLE NO.

**EQUIPMENT BLANK** 

Lab Name: GCAL	Contract:				
Lab Code: LA024	Case No.:			o.: 211011	405
Matrix: (soil/water)					
Sample wt/vol: 5	(g/ml) mL	Lab Sample ID:	21101140514		
	W	Lab File ID: 21	10116/a8966		
			01/13/11	Time: 17	10
	MS-30 ID: .25 (mm	Date Received:	01/14/11		
Instrument ID: MSV1	11	Date Analyzed:	01/16/11	Time: 11	42
Soil Extract Volume:	( µL	Dilution Factor:	1	Analyst:	RJU
Soil Aliquot Volume:	' μL				Batch: 449012
CONCENTRATION	UNITS: mg/L	Analytical Metho	d: SW-846 8260	,,,,,,,,,,,,,,,,	
CAS NO. CO	OMPOUND	RESULT	Q I	MDL	RL
10061-01-5 ci	is-1,3-Dichloropropene	0.00500	U 0.	000031	0.00500
136777-61- m	n,p-Xylene	0.010	U 0.	000058	0.010
71-36-3 n-	-Butyl alcohol	0.025	U 0.	000395	0.025
104-51-8 n	-Butylbenzene	0.00500	U 0.	000036	0.00500
103-65-1 n	-Propylbenzene	0.00500	U 0.	000054	0.00500
95-47-6 o	-Xylene	0.00500	U 0.	000027	0.00500
135-98-8 se	ec-Butylbenzene	0.00500	U 0.	000026	0.00500
1634-04-4 te	ert-Butyl methyl ether (MTBE)	0.00500	U 0.	000051	0.00500
98-06-6 te	ert-Butylbenzene	0.00500	U 0.	000077	0.00500
156-60-5 tr	ans-1,2-Dichloroethene	0.00500	U 0.	000107	0.00500
10061-02-6 tr	ans-1,3-Dichloropropene	0.00500	U 0.	000054	0.00500
110-57-6 tr	ans-1,4-Dichloro-2-butene	0.00500	U 0.	000329	0.00500

SAMPLE NO.

Lab Name: GC	Contrac	:t:		***************************************	x	
Lab Code: LA0	24 Case No.:					405
Matrix: (soil/wate	r) Water	0000000000				
Sample wt/vol:	5 (g/ml) mL		Lab Sample ID:	211011405	15	
	LOW		Lab File ID: 21	10116/a8967		
	dec.		Date Collected:	01/13/11	Time: 17	15
	TX-VMS-30 ID: .25		Date Received:	01/14/11		
nstrument ID: N	MSV11		Date Analyzed:	01/16/11	Time: 12	05
Soil Extract Volui	me:	( µL	Dilution Factor:	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	······································	RJU
	me:					Batch: 449012
			Analytical Metho			
CONCENTRAT	FION UNITS: mg/L		•			
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane		0.00500	U	0.000113	0.00500
71-55-6	1,1,1-Trichloroethane		0.00500	U	0.000106	0.00500
79-34-5	1,1,2,2-Tetrachloroethane		0.00500	U	0.000072	0.00500
79-00-5	1,1,2-Trichloroethane		0.00500	U	0.000095	0.00500
75-34-3	1,1-Dichloroethane		0.00500	U	0.000030	0.00500
75-35-4	1,1-Dichloroethene		0.00500	U	0.000164	0.00500
563-58-6	1,1-Dichloropropene		0.00500	U	0.000067	0.00500
96-18-4	1,2,3-Trichloropropane		0.00500	U	0.000100	0.00500
120-82-1	1,2,4-Trichlorobenzene		0.00500	U	0.000119	0.00500
95-63-6	1,2,4-Trimethylbenzene		0.00500	U	0.000027	0.00500
96-12-8	1,2-Dibromo-3-chloropropane		0.00500	U	0.000082	0.00500
106-93-4	1,2-Dibromoethane		0.00500	Ų	0.000046	0.00500
95-50-1	1,2-Dichlorobenzene		0.00500	U	0.000078	0.00500
107-06-2	1,2-Dichloroethane		0.00500	U	0.000086	0.00500
78-87-5	1,2-Dichloropropane		0.00500	U	0.000064	0.00500
108-67-8	1,3,5-Trimethylbenzene		0.00500	U	0.000021	0.00500
541-73-1	1,3-Dichlorobenzene		0.00500	U	0.000098	0.00500
142-28-9	1,3-Dichloropropane		0.00500	U	0.000041	0.00500
106-46-7	1,4-Dichlorobenzene		0.00500	U	0.000118	0.00500
594-20-7	2,2-Dichloropropane		0.00500	U	0.000117	0.00500
78-93-3	2-Butanone		0.00500	U	0.000093	0.00500
110-75-8	2-Chloroethylvinyl ether		0.00500	U	0.000515	0.00500
95-49-8	2-Chlorotoluene		0.00500	U	0.000044	0.00500
591-78-6	2-Hexanone		0.00500	U	0.000503	0.00500
106-43-4	4-Chlorotoluene		0.00500	U	0.000052	0.00500
99-87-6	4-Isopropyltoluene		0.00500	U	0.000037	0.00500
108-10-1	4-Methyl-2-pentanone		0.00500	U	0.000065	0.00500
67-64-1	Acetone		0.025	U	0.00115	0.025
107-02-8	Acrolein		0.025	U	0.00169	0.025
107-13-1	Acrylonitrile		0.025	U	0.00100	0.025
71-43-2	Benzene		0.00500	U	0.000054	0.00500

SAMPLE NO.

Lab Name: GC	AL Contrac	ct:				
ab Code: LA0	24 Case No.:					405
/latrix: (soil/wate	r) Water	**********************				
Sample wt/vol:	5 (g/ml) mL		Lab Sample ID:	211011405	15	
evel: (low/med)	LOW	****************	Lab File ID: 21	10116/a8967		
	lec.			01/13/11	Time: 17	15
	X-VMS-30 ID: .25		Date Received:	01/14/11		
nstrument ID: N	10) /4.4		5.4.1.1	***************************************	Time: 12	205
	me:		Dilution Factor:			RJU
Soil Aliquot Volun	ne:	( µL	Prep Batch:	***************************************	Analytical	Batch: 449012
CONCENTRAT	ION UNITS: mg/L		Analytical Metho	od: SW-846	8260	
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
108-86-1	Bromobenzene		0.00500	U	0.000084	0.00500
75-27-4	Bromodichloromethane		0.00500	U	0.000053	0.00500
75-25-2	Bromoform		0.00500	U	0.000104	0.00500
74-83-9	Bromomethane		0.00500	U	0.000264	0.00500
75-15-0	Carbon disulfide		0.00500	U	0.000143	0.00500
56-23-5	Carbon tetrachloride		0.00500	U	0.000148	0.00500
108-90-7	Chlorobenzene		0.00500	U	0.000027	0.00500
75-00-3	Chloroethane		0.00500	U	0.000351	0.00500
67-66-3	Chloroform		0.00500	U	0.000056	0.00500
74-87-3	Chloromethane		0.00500	U	0.000088	0.00500
110-82-7	Cyclohexane		0.00500	U	0.000064	0.00500
124-48-1	Dibromochloromethane		0.00500	U	0.000040	0.00500
74-95-3	Dibromomethane		0.00500	U	0.000184	0.00500
75-71-8	Dichlorodifluoromethane		0.00500	U	0.000096	0.00500
100-41-4	Ethylbenzene		0.00500	U	0.000062	0.00500
87-68-3	Hexachlorobutadiene		0.00500	U	0.000690	0.00500
98-82-8	Isopropylbenzene (Cumene)		0.00500	U	0.000034	0.00500
79-20-9	Methyl Acetate		0.00500	U	0.00142	0.00500
74-88-4	Methyl iodide		0.00500	U	0.000243	0.00500
108-87-2	Methylcyclohexane		0.00500	U	0.000072	0.00500
75-09-2	Methylene chloride		0.010	U	0.000327	0.010
91-20-3	Naphthalene		0.00500	U	0.000081	0.00500
100-42-5	Styrene		0.00500	U	0.000050	0.00500
127-18-4	Tetrachloroethene		0.00500	U	0.000121	0.00500
108-88-3	Toluene		0.00500	U	0.000059	0.00500
79-01-6	Trichloroethene		0.00500	U	0.000061	0.00500
75-69-4	Trichlorofluoromethane		0.00500	U	0.000123	0.00500
76-13-1	Trichlorotrifluoroethane		0.00500	U	0.000127	0.00500
108-05-4	Vinyl acetate		0.00500	U	0.000202	0.00500
75-01-4	Vinyl chloride		0.00500	U	0.000093	0.00500
1330-20-7	Xylene (total)		0.010	U	0.000058	0.010
156-59-2	cis-1,2-Dichloroethene		0.00500	U	0.000061	0.00500

SAMPLE NO.

Lab Name: GCAL	Contrac	ot:		***************************************	***************************************	
Lab Code: LA024	Case No.:				SDG No.: 21101	1405
Matrix: (soil/water)	Water					
Sample wt/vol: 5	(g/ml) mL		Lab Sample ID:	2110114051	5	
Level: (low/med) _L	LOW		Lab File ID: 21	10116/a8967		
	D		Date Collected:	01/13/11	Time: 1	715
		(mm	Date Received:	01/14/11		
Instrument ID: MS	SV11		Date Analyzed:	01/16/11	Time: _1	205
		(µL	Dilution Factor:	1	Analyst:	RJU
Soil Aliquot Volume	):	(µL	Prep Batch:			l Batch: 449012
CONCENTRATIO	ON UNITS: mg/L		Analytical Metho	d: SW-846 8	3260	
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
10061-01-5	cis-1,3-Dichloropropene		0.00500	U	0.000031	0.00500
136777-61-	m,p-Xylene		0.010	U	0.000058	0.010
71-36-3	n-Butyl alcohol		0.025	U	0.000395	0.025
104-51-8	n-Butylbenzene		0.00500	U	0.000036	0.00500
103-65-1	n-Propylbenzene		0.00500	Ų	0.000054	0.00500
95-47-6	o-Xylene		0.00500	U	0.000027	0.00500
135-98-8	sec-Butylbenzene		0.00500	U	0.000026	0.00500
1634-04-4	tert-Butyl methyl ether (MTBE)		0.00500	U	0.000051	0.00500
98-06-6	tert-Butylbenzene		0.00500	U	0.000077	0.00500
156-60-5	trans-1,2-Dichloroethene		0.00500	U	0.000107	0.00500
10061-02-6	trans-1,3-Dichloropropene		0.00500	U	0.000054	0.00500
110-57-6	trans-1,4-Dichloro-2-butene		0.00500	U	0.000329	0.00500

SAMPLE NO.

Lab Name: GC	CAL Contract:					
	024 Case No.:				405	
Matrix: (soil/wate	er) Water					
Sample wt/vol:	5 (g/ml) mL	Lab File ID: 2110116/a8968				
_evel: (low/med)	LOW					
	dec.					
GC Column: RTX-VMS-30 ID: .25 (mm Instrument ID: MSV11 Soil Extract Volume: ( µL		Date Received: 01/14/11				
		**			Time: 1228	
			Analyst: RJU			
			Analytical Batch: 449012			
Soil Aliquot Volu	me: ( µL	Prep Batch:		Analytical	Batch: 449012	
CONCENTRA	TION UNITS: mg/L	Analytical Method	: SW-846 8	3260		
CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
630-20-6	1,1,1,2-Tetrachloroethane	0.00500	U	0.000113	0.00500	
71-55-6	1,1,1-Trichloroethane	0.00500	U	0.000106	0.00500	
79-34-5	1,1,2,2-Tetrachloroethane	0.00500	U	0.000072	0.00500	
79-00-5	1,1,2-Trichloroethane	0.00500	U	0.000095	0.00500	
75-34-3	1,1-Dichloroethane	0.00500	U	0.000030	0.00500	
75-35-4	1,1-Dichloroethene	0.00500	U	0.000164	0.00500	
563-58-6	1,1-Dichloropropene	0.00500	U	0.000067	0.00500	
96-18-4	1,2,3-Trichloropropane	0.00500	U	0.000100	0.00500	
120-82-1	1,2,4-Trichlorobenzene	0.00500	U	0.000119	0.00500	
95-63-6	1,2,4-Trimethylbenzene	0.00500	U	0.000027	0.00500	
96-12-8	1,2-Dibromo-3-chloropropane	0.00500	U	0.000082	0.00500	
106-93-4	1,2-Dibromoethane	0.00500	U	0.000046	0.00500	
95-50-1	1,2-Dichlorobenzene	0.00500	U	0.000078	0.00500	
107-06-2	1,2-Dichloroethane	0.00500	U	0.000086	0.00500	
78-87-5	1,2-Dichloropropane	0.00500	U	0.000064	0.00500	
108-67-8	1,3,5-Trimethylbenzene	0.00500	U	0.000021	0.00500	
541-73-1	1,3-Dichlorobenzene	0.00500	U	0.000098	0.00500	
142-28-9	1,3-Dichloropropane	0.00500	U	0.000041	0.00500	
106-46-7	1,4-Dichlorobenzene	0.00500	U	0.000118	0.00500	
594-20-7	2,2-Dichloropropane	0.00500	U	0.000117	0.00500	
78-93-3	2-Butanone	0.00500	U	0.000093	0.00500	
110-75-8	2-Chloroethylvinyl ether	0.00500	U	0.000515	0.00500	
95-49-8	2-Chlorotoluene	0.00500	U	0.000044	0.00500	
591-78-6	2-Hexanone	0.00500	, U	0.000503	0.00500	
106-43-4	4-Chlorotoluene	0.00500	U	0.000052	0.00500	
99-87-6	4-Isopropyltoluene	0.00500	U	0.000037	0.00500	
108-10-1	4-Methyl-2-pentanone	0.00500	U	0.000065	0.00500	
67-64-1	Acetone	0.025	U	0.00115	0.025	
107-02-8	Acrolein	0.025	U	0.00169	0.025	
107-13-1	Acrylonitrile	0.025	U	0.00100	0.025	
71-43-2	Benzene	0.00500	U	0.000054	0.00500	

SAMPLE NO.

TRIP BLANK 2

Lab Name: GC	AL Contract:				
Lab Code: LA0	24 Case No.:			SDG No.: 211011	405
Matrix: (soil/wate	r) Water				
Sample wt/vol:	5 (g/ml) mL	Lab Sample ID:	2110114051	6	
Level: (low/med)	LOW	Lab File ID: 21	10116/a8968		
% Moisture: not of	dec.	Date Collected:	01/13/11	Time: 17	20
	TX-VMS-30 ID: .25 (mm	Date Received:	01/14/11		
Instrument ID: N	MSV11	Date Analyzed:	01/16/11	Time: 12	28
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	me: ( µL	Dilution Factor:	***************************************		RJU
	me: ( µL		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Batch: 449012
		Analytical Metho			
CONCENTRAT	TION UNITS: mg/L	Analytical Metho	u. 377-040 (	<b>5200</b>	
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
108-86-1	Bromobenzene	0.00500	Τυ	0.000084	0.00500
75-27-4	Bromodichloromethane	0.00500	T U	0.000053	0.00500
75-25-2	Bromoform	0.00500	<del>                                     </del>	0.000104	0.00500
74-83-9	Bromomethane	0.00500	T U	0.000264	0.00500
75-15-0	Carbon disulfide	0.00500	U	0.000143	0.00500
56-23-5	Carbon tetrachloride	0.00500	T U	0.000148	0.00500
108-90-7	Chlorobenzene	0.00500	T U	0.000027	0.00500
75-00-3	Chloroethane	0.00500	T U	0.000351	0.00500
67-66-3	Chloroform	0.00500	U	0.000056	0.00500
74-87-3	Chloromethane	0.00500	Ū	0.000088	0.00500
110-82-7	Cyclohexane	0.00500	T U	0.000064	0.00500
124-48-1	Dibromochloromethane	0.00500	U	0.000040	0.00500
74-95-3	Dibromomethane	0.00500	Ū	0.000184	0.00500
75-71-8	Dichlorodifluoromethane	0.00500	U	0.000096	0.00500
100-41-4	Ethylbenzene	0.00500	U	0.000062	0.00500
87-68-3	Hexachlorobutadiene	0.00500	U	0.000690	0.00500
98-82-8	Isopropylbenzene (Cumene)	0.00500	U	0.000034	0.00500
79-20-9	Methyl Acetate	0.00500	U	0.00142	0.00500
74-88-4	Methyl iodide	0.00500	U	0.000243	0.00500
108-87-2	Methylcyclohexane	0.00500	U	0.000072	0.00500
75-09-2	Methylene chloride	0.010	U	0.000327	0.010
91-20-3	Naphthalene	0.00500	U	0.000081	0.00500
100-42-5	Styrene	0.00500	U	0.000050	0.00500
127-18-4	Tetrachloroethene	0.00500	U	0.000121	0.00500
108-88-3	Toluene	0.00500	U	0.000059	0.00500
79-01-6	Trichloroethene	0.00500	U	0.000061	0.00500
75-69-4	Trichlorofluoromethane	0.00500	U	0.000123	0.00500
76-13-1	Trichlorotrifluoroethane	0.00500	U	0.000127	0.00500
108-05-4	Vinyl acetate	0.00500	U	0.000202	0.00500
75-01-4	Vinyl chloride	0.00500	U	0.000093	0.00500
1330-20-7	Xylene (total)	0.010	U	0.000058	0.010
156-59-2	cis-1 2-Dichloroethene	0.00500	U	0.000061	0.00500

SAMPLE NO.

TRIP BLANK 2

Lab Name: GCAL	Contra	act:				
Lab Code: LA024	Case No.:					011405
Matrix: (soil/water)	Water	************************				•
Sample wt/vol: 5	(g/ml) mL		Lab Sample ID:	211011405	16	
	.OW			0116/a8968		
			Date Collected:	01/13/11	Time:	1720
	VMS-30 ID: .25		Date Received:	01/14/11		
Instrument ID: MS	V11		Date Analyzed:	01/16/11	Time:	1228
Soil Extract Volume		( µL	Dilution Factor:	1	Analys	t: RJU
Soil Aliquot Volume	:	( µL	Prep Batch:			cal Batch: _449012
CONCENTRATIO	N UNITS: mg/L		Analytical Method	d: SW-846	8260	
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
10061-01-5	cis-1,3-Dichloropropene		0.00500	U	0.000031	0.00500
136777-61-	m,p-Xylene		0.010	U	0.000058	0.010
71-36-3	n-Butyl alcohol		0.025	U	0.000395	0.025
104-51-8	n-Butylbenzene		0.00500	U	0.000036	0.00500
103-65-1	n-Propylbenzene		0.00500	U	0.000054	0.00500
95-47-6	o-Xylene		0.00500	U	0.000027	0.00500
135-98-8	sec-Butylbenzene		0.00500	U	0.000026	0.00500
1634-04-4	tert-Butyl methyl ether (MTBE)		0.00500	U	0.000051	0.00500
98-06-6	tert-Butylbenzene		0.00500	U	0.000077	0.00500
156-60-5	trans-1,2-Dichloroethene		0.00500	U	0.000107	0.00500
10061-02-6	trans-1,3-Dichloropropene		0.00500	Ų	0.000054	0.00500
110-57-6	trans-1,4-Dichloro-2-butene		0.00500	U	0.000329	0.00500

		NC	

MB913	3048	

Lab Name: GC	CAL Contr	act:				
_ab Code: LA0	)24 Case No.:					405
Matrix: (soil/wate					***************************************	
Sample wt/vol:	5 (g/ml) mL		Lab Sample ID:	913048		
	LOW			0116/a8963		
	dec.			***************************************	Time:	
3C Column: R	TX-VMS-30 ID: .25	(mm	Date Received:	***************************************		
nstrument ID:	MSV11		Date Analyzed:	01/16/11	Time: 10	33
Soil Extract Volu	me:		Dilution Factor:	1	Analyst:	RJU
						Batch: 449012
ooii Aiiquot voiu	me:	, (µL	Prep Batch:			Balcii. 449012
CONCENTRA	TION UNITS: mg/L		Analytical Method	d: SW-846	8260	
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
67-64-1	Acetone		0.025	ΙU	0.00115	0.025
107-02-8	Acrolein		0.025	U	0.00169	0.025
107-13-1	Acrylonitrile		0.025	U	0.00100	0.025
75-27-4	Bromodichloromethane		0.00500	U	0.000053	0.00500
75-25-2	Bromoform		0.00500	U	0.000104	0.00500
74-83-9	Bromomethane		0.00500	U	0.000264	0.00500
75-15-0	Carbon disulfide		0.00500	U	0.000143	0.00500
56-23-5	Carbon tetrachloride		0.00500	U	0.000148	0.00500
75-00-3	Chloroethane		0.00500	U	0.000351	0.00500
136777-61-	m,p-Xylene		0.010	U	0.000058	0.010
67-66-3	Chloroform		0.00500	U	0.000056	0.00500
74-87-3	Chloromethane		0.00500	U	0.000088	0.00500
124-48-1	Dibromochloromethane		0.00500	U	0.000040	0.00500
74-95-3	Dibromomethane		0.00500	U	0.000184	0.00500
75-71-8	Dichlorodifluoromethane		0.00500	U	0.000096	0.00500
75-34-3	1,1-Dichloroethane		0.00500	U	0.000030	0.00500
107-06-2	1,2-Dichloroethane		0.00500	U	0.000086	0.00500
156-59-2	cis-1,2-Dichloroethene		0.00500	U	0.000061	0.00500
156-60-5	trans-1,2-Dichloroethene		0.00500	Ų	0.000107	0.00500
75-09-2	Methylene chloride		0.010	U	0.000327	0.010
78-87-5	1,2-Dichloropropane		0.00500	U	0.000064	0.00500
10061-01-5	cis-1,3-Dichloropropene		0.00500	U	0.000031	0.00500
10061-02-6	trans-1,3-Dichloropropene		0.00500	U	0.000054	0.00500
100-41-4	Ethylbenzene		0.00500	U	0.000062	0.00500
591-78-6	2-Hexanone		0.00500	U	0.000503	0.00500
98-82-8	Isopropylbenzene (Cumene)		0.00500	U	0.000034	0.00500
78-93-3	2-Butanone		0.00500	U	0.000093	0.00500
74-88-4	Methyl iodide		0.00500	U	0.000243	0.00500
108-10-1	4-Methyl-2-pentanone		0.00500	U	0.000065	0.00500
103-65-1	n-Propylbenzene		0.00500	U	0.000054	0.00500
100-42-5	Styrene		0.00500	U	0.000050	0.00500

SAMPLE NO.

MB913048

Lab Name: GC	CAL Contract:				
ab Code: LAC	O24 Case No.:			SDG No.: 211011	405
Matrix: (soil/wate	er) Water				
Sample wt/vol:	5 (g/ml) mL	Lab Sample ID:	913048		
_evel: (low/med)		Lab File ID: 21	10116/a8963		
% Moisture: not	dec.	Date Collected:		Time:	
	TX-VMS-30 ID: .25 (mm				
				<b>—</b>	
nstrument ID:		Date Analyzed:	·····		33
Soil Extract Volu	ime: ( μL	Dilution Factor:	1	Analyst:	RJU
Soil Aliquot Volu	ime: ( μL	Prep Batch:		Analytical	Batch: 449012
CONCENTRA	TION UNITS: mg/L	Analytical Metho	od: SW-846 8	260	
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	0.00500	T U T	0.000121	0.00500
630-20-6	1,1,1,2-Tetrachloroethane	0.00500	U	0.000113	0.00500
79-34-5	1,1,2,2-Tetrachloroethane	0.00500	U	0.000072	0.00500
120-82-1	1,2,4-Trichlorobenzene	0.00500	U	0.000119	0.00500
71-55-6	1,1,1-Trichloroethane	0.00500	U	0.000106	0.00500
79-00-5	1,1,2-Trichloroethane	0.00500	U	0.000095	0.00500
75-69-4	Trichlorofluoromethane	0.00500	U	0.000123	0.00500
96-18-4	1,2,3-Trichloropropane	0.00500	U	0.000100	0.00500
95-63-6	1,2,4-Trimethylbenzene	0.00500	U	0.000027	0.00500
108-67-8	1,3,5-Trimethylbenzene	0.00500	U	0.000021	0.00500
75-01-4	Vinyl chloride	0.00500	V	0.000093	0.00500
95-47-6	o-Xylene	0.00500	U	0.000027	0.00500
96-12-8	1,2-Dibromo-3-chloropropane	0.00500	U	0.000082	0.00500
106-93-4	1,2-Dibromoethane	0.00500	U	0.000046	0.00500
108-05-4	Vinyl acetate	0.00500	U	0.000202	0.00500
1634-04-4	tert-Butyl methyl ether (MTBE)	0.00500	U	0.000051	0.00500
99-87-6	4-Isopropyltoluene	0.00500	U	0.000037	0.00500
1330-20-7	Xylene (total)	0.010	U	0.000058	0.010
108-87-2	Methylcyclohexane	0.00500	U	0.000072	0.00500
110-57-6	trans-1,4-Dichloro-2-butene	0.00500	U	0.000329	0.00500
110-82-7	Cyclohexane	0.00500	U	0.000064	0.00500
594-20-7	2,2-Dichloropropane	0.00500	U	0.000117	0.00500
79-20-9	Methyl Acetate	0.00500	U	0.00142	0.00500
76-13-1	Trichlorotrifluoroethane	0.00500	U	0.000127	0.00500
563-58-6	1,1-Dichloropropene	0.00500	U	0.000067	0.00500
110-75-8	2-Chloroethylvinyl ether	0.00500	U	0.000515	0.00500
142-28-9	1,3-Dichloropropane	0.00500	U	0.000041	0.00500
108-86-1	Bromobenzene	0.00500	U	0.000084	0.00500
95-49-8	2-Chlorotoluene	0.00500	U	0.000044	0.00500
106-43-4	4-Chlorotoluene	0.00500	U	0.000052	0.00500
98-06-6	tert-Butylbenzene	0.00500	U	0.000077	0.00500
135-98-8	sec-Butvlbenzene	0.00500	U	0.000026	0.00500

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 -	ΜВ	91	30	48		

				L	
Lab Name: GCAL	Contract:			***************************************	
Lab Code: LA024 Case No.:		SAS No.:	s	SDG No.: 21101	1405
Matrix: (soil/water) Water					
Sample wt/vol: 5 (g/ml) mL		Lab Sample ID:	913048		
Level: (low/med) LOW	***************************************	Lab File ID: 21	10116/a8963		
% Moisture: not dec.		Date Collected:		Time:	
GC Column: RTX-VMS-30 ID:	.25 (mm	Date Received:	***************************************		
Instrument ID: MSV11		Date Analyzed:	01/16/11	Time: 1	033
Soil Extract Volume:	( µL	Dilution Factor:	1	Analyst:	RJU
Soil Aliquot Volume:	( µL	Prep Batch:		Analytica	l Batch: 449012
CONCENTRATION UNITS: mg/L		Analytical Metho	d: SW-846 8	260	
CAS NO. COMPOUND		RESULT	Q	MDL	RL
541-73-1 1 3-Dichlorobenzene		0.00500	TUT	0.000098	0.00500

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
541-73-1	1,3-Dichlorobenzene	0.00500	U	0.000098	0.00500
106-46-7	1,4-Dichlorobenzene	0.00500	U	0.000118	0.00500
104-51-8	n-Butylbenzene	0.00500	U	0.000036	0.00500
95-50-1	1,2-Dichlorobenzene	0.00500	U	0.000078	0.00500
87-68-3	Hexachlorobutadiene	0.00500	U	0.000690	0.00500
91-20-3	Naphthalene	0.00500	U	0.000081	0.00500
71-36-3	n-Butyl alcohol	0.025	U	0.000395	0.025
75-35-4	1,1-Dichloroethene	0.00500	U	0.000164	0.00500
71-43-2	Benzene	0.00500	U	0.000054	0.00500
79-01-6	Trichloroethene	0.00500	U	0.000061	0.00500
108-88-3	Toluene	0.00500	U	0.000059	0.00500
108-90-7	Chlorobenzene	0.00500	U	0.000027	0.00500

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MB91	3051	

Lab Name: GCA	AL Contrac	ct:				
	Case No.:					405
Matrix: (soil/water)	) Solid					
Sample wt/vol: 5	5 (g/ml) g		Lab Sample ID:	913051		
.evel: (low/med)			Lab File ID: 211		1	***************************************
	ec.		, 2000000000000000000000000000000000000		Time:	***************************************
SC Column: R12	X-VMS-30 ID: .25	(mm	Date Received:			
nstrument ID: M	ISV11		Date Analyzed:	01/16/11	Time: 10	)55
Soil Extract Volum	ne:	(µL	Dilution Factor:	50	Analyst:	RJU
	ne:		Prep Batch:		Analytical	Batch: 449013
			Analytical Method			
CONCENTRATI	ION UNITS: mg/kg			***************************************		
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
67-64-1	Acetone		1.25	U	0.053	1.25
107-02-8	Acrolein		1.25	U	0.100	1.25
107-13-1	Acrylonitrile		1.25	U	0.054	1.25
75-27-4	Bromodichloromethane		0.250	U	0.00750	0.250
75-25-2	Bromoform		0.250	U	0.012	0.250
74-83-9	Bromomethane		0.250	U	0.073	0.250
75-15-0	Carbon disulfide		0.250	U	0.023	0.250
56-23-5	Carbon tetrachloride		0.250	U	0.012	0.250
75-00-3	Chloroethane		0.250	U	0.033	0.250
136777-61-	m,p-Xylene		0.250	U	0.025	0.250
67-66-3	Chloroform		0.250	U	0.012	0.250
74-87-3	Chloromethane		0.250	U	0.038	0.250
124-48-1	Dibromochloromethane		0.250	U	0.00700	0.250
74-95-3	Dibromomethane		0.250	U	0.016	0.250
75-71-8	Dichlorodifluoromethane		0.250	U	0.00555	0.250
75-34-3	1,1-Dichloroethane		0.250	U	0.017	0.250
107-06-2	1,2-Dichloroethane		0.250	U	0.00655	0.250
156-59-2	cis-1,2-Dichloroethene		0.250	U	0.00860	0.250
156-60-5	trans-1,2-Dichloroethene		0.250	U	0.010	0.250
75-09-2	Methylene chloride		0.500	U	0.017	0.500
78-87-5	1,2-Dichloropropane		0.250	U	0.00540	0.250
10061-01-5	cis-1,3-Dichloropropene		0.250	U	0.00725	0.250
10061-02-6	trans-1,3-Dichloropropene		0.250	U	0.011	0.250
100-41-4	Ethylbenzene		0.250	U	0.010	0.250
591-78-6	2-Hexanone		0.250	U	0.017	0.250
98-82-8	Isopropylbenzene (Cumene)		0.250	U	0.00975	0.250
78-93-3	2-Butanone		0.250	U	0.030	0.250
74-88-4	Methyl 3 postopopo		0.250	1 0		0.250
108-10-1	4-Methyl-2-pentanone		0.250	1 0	0.017	0.250
103-65-1	n-Propylbenzene		0.250		0.014	0.250
100-42-5	Styrene		0.250	U	0.013	0.250

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М	B91	3051	 	 _
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Lab Name: GC	CAL Contract:	-			
_ab Code: LAC	024 Case No.:			SDG No.: 211011	405
Matrix: (soil/wate	er) Solid				
Sample wt/vol:	5 (g/ml) g	Lab Sample ID:	913051		
evel: (low/med)	LOW	Lab File ID: 21	10116/a8964		
	dec.	Date Collected:		Time:	
	TX-VMS-30 ID: .25 (mm				
nstrument ID:		Date Analyzed:			55
***		Dilution Factor:	***************************************		
	***************************************				RJU
Soil Aliquot Volu	me: ( µL	Prep Batch:		Analytical	Batch: 449013
CONCENTRA	TION UNITS: mg/kg	Analytical Metho	d: SW-846 8	3260	
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	0.250	l u l	0.010	0.250
630-20-6	1,1,1,2-Tetrachloroethane	0.250	U	0.00525	0.250
79-34-5	1,1,2,2-Tetrachloroethane	0.250	U	0.014	0.250
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.015	0.250
71-55-6	1,1,1-Trichloroethane	0.250	U	0.012	0.250
79-00-5	1,1,2-Trichloroethane	0.250	U	0.012	0.250
75-69-4	Trichlorofluoromethane	0.250	U	0.00670	0.250
96-18-4	1,2,3-Trichloropropane	0.100	U	0.017	0.100
95-63-6	1,2,4-Trimethylbenzene	0.250	U	0.015	0.250
108-67-8	1,3,5-Trimethylbenzene	0.250	U	0.012	0.250
75-01-4	Vinyl chloride	0.250	U	0.00675	0.250
95-47-6	o-Xylene	0.250	U	0.00945	0.250
96-12-8	1,2-Dibromo-3-chloropropane	0.250	U	0.040	0.250
106-93-4	1,2-Dibromoethane	0.250	U	0.012	0.250
108-05-4	Vinyl acetate	0.250	U	0.011	0.250
1634-04-4	tert-Butyl methyl ether (MTBE)	0.250	Ü	0.00835	0.250
99-87-6	4-Isopropyltoluene	0.250	U	0.013	0.250
1330-20-7	Xylene (total)	0.500	U	0.034	0.500
108-87-2	Methylcyclohexane	0.250	U	0.00820	0.250
110-57-6	trans-1,4-Dichloro-2-butene	0.250	U	0.028	0.250
110-82-7	Cyclohexane	0.250	U	0.00880	0.250
594-20-7	2,2-Dichloropropane	0.250	U	0.058	0.250
79-20-9	Methyl Acetate	0.250	U	0.017	0.250
76-13-1	Trichlorotrifluoroethane	0.250	U	0.058	0.250
563-58-6	1,1-Dichloropropene	0.250	U	0.010	0.250
110-75-8	2-Chloroethylvinyl ether	0.250	U	0.012	0.250
142-28-9	1,3-Dichloropropane	0.250	U	0.00895	0.250
108-86-1	Bromobenzene	0.250	U	0.015	0.250
95-49-8	2-Chlorotoluene	0.250	U	0.013	0.250
106-43-4	4-Chlorotoluene	0.250	U	0.015	0.250
98-06-6	tert-Butylbenzene	0.250	U	0.012	0.250
135-98-8	sec-Butvlbenzene	0.250	Ú	0.013	0.250

SAMPLE NO.	
 MB913051	

Lab Name: GC	CAL	ntract:			***************************************	
Lab Code: LAC	Case No.:					405
Matrix: (soil/wate	er) Solid		*			
Sample wt/vol:	5 (g/ml) g		Lab Sample ID:	913051		
	) LOW					
	dec.			nooccontact		
	TX-VMS-30 ID: .25					
Instrument ID:			Data Analysis d			
Soil Extract Volu	ıme:		Dilution Factor:			RJU
	ime:		Prep Batch:			Batch: 449013
	TION UNITS: mg/kg		Analytical Method:	SW-846 8	3260	¥
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
541-73-1	1,3-Dichlorobenzene		0.250	U	0.016	0.250
106-46-7	1,4-Dichlorobenzene		0.250	U	0.021	0.250
104-51-8	n-Butylbenzene		0.250	Ú	0.017	0.250
95-50-1	1,2-Dichlorobenzene	·····	0.250	U	0.016	0.250
87-68-3	Hexachlorobutadiene		0.250	U	0.012	0.250
91-20-3	Naphthalene		0.250	U	0.041	0.250
71-36-3	n-Butyl alcohol		1.25	U	0.915	1.25
75-35-4	1,1-Dichloroethene		0.250	U	0.033	0.250
71-43-2	Benzene		0.250	U	0.00685	0.250
79-01-6	Trichloroethene		0.250	U	0.012	0.250
108-88-3	Toluene		0.250	U	0.010	0.250
108-90-7	Chlorobenzene		0.250	U	0.00940	0.250

SAMPLE NO.

MB913705
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Lab Name: GC	AL Con	tract:		***************************************		
ab Code: LA0	24 Case No.:		SAS No.:		SDG No.: 211011	405
Matrix: (soil/wate	r) Solid					
Sample wt/vol:	5 (g/ml) g		Lab Sample ID:	913705		
_evel: (low/med)	LOW		Lab File ID: 2110	0118p/k9909	)	
% Moisture: not o	dec.		Date Collected:		Time:	
	TX-VMS-30 ID: .25					
nstrument ID: N			Date Analyzed:			
enno	me:		Dilution Factor:	***************************************	***************************************	CLH
Soil Aliquot Volur	me:	( µL	Prep Batch:	·····	Analytical	Batch: 449157
CONCENTRAT	TION UNITS: mg/kg		Analytical Method	SW-846 8	3260	
CAS NO.	COMPOUND		RESULT	Q,	MDL	RL
67-64-1	Acetone		1.25	U	0.053	1.25
107-02-8	Acrolein		1.25	U	0.100	1.25
107-13-1	Acrylonitrile		1.25	U	0.054	1.25
75-27-4	Bromodichloromethane		0.250	U	0.00750	0.250
75-25-2	Bromoform		0.250	U	0.012	0.250
74-83-9	Bromomethane		0.250	U	0.073	0.250
75-15-0	Carbon disulfide		0.250	U	0.023	0.250
56-23-5	Carbon tetrachloride		0.250	U	0.012	0.250
75-00-3	Chloroethane		0.250	U	0.033	0.250
136777-61-	m,p-Xylene		0.250	U	0.025	0.250
67-66-3	Chloroform		0.250	U	0.012	0.250
74-87-3	Chloromethane		0.250	U	0.038	0.250
124-48-1	Dibromochloromethane		0.250	U	0.00700	0.250
74-95-3	Dibromomethane		0.250	U	0.016	0.250
75-71-8	Dichlorodifluoromethane		0.250	U	0.00555	0.250
75-34-3	1,1-Dichloroethane		0.250	U	0.017	0.250
107-06-2	1,2-Dichloroethane		0.250	U	0.00655	0.250
156-59-2	cis-1,2-Dichloroethene		0.250	U	0.00860	0.250
156-60-5	trans-1,2-Dichloroethene		0.250	U	0.010	0.250
75-09-2	Methylene chloride		0.500	U	0.017	0.500
78-87-5	1,2-Dichloropropane		0.250	U	0.00540	0.250
10061-01-5	cis-1,3-Dichloropropene		0.250	U	0.00725	0.250
10061-02-6	trans-1,3-Dichloropropene		0.250	U	0.011	0.250
100-41-4	Ethylbenzene		0.250	U	0.010	0.250
591-78-6	2-Hexanone		0.250	U	0.017	0.250
98-82-8	Isopropylbenzene (Cumene)		0.250	U	0.00975	0.250
78-93-3	2-Butanone		0.250	U	0.030	0.250
74-88-4	Methyl iodide		0.250	U	0.066	0.250
108-10-1	4-Methyl-2-pentanone		0.250	U	0.017	0.250
103-65-1	n-Propylbenzene		0.250	U	0.014	0.250
100-42-5	Styrene		0.250	11	0.013	0.250

SAMPLE	NO.
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MB913705	

Lab Name: GC	CAL Contract:				
Lab Code: LA0				SDG No.: 2110114	105
Matrix: (soil/wate	er) Solid				
Sample wt/vol:	5 (g/ml) g	Lab Sample ID:	913705		
Level: (low/med)		Lab File ID: 211	0118p/k9909	9	
	dec.	Date Collected:	•		
	TX-VMS-30 ID: .25 (mm				
nstrument ID:	MSV5	Date Analyzed:	01/18/11	Time: 14	55
Soil Extract Volu	me: ( µL	Dilution Factor:	50	Analyst:	CLH
Soil Aliquot Volu	me: ( µL	Prep Batch:		Analytical I	Batch: 449157
•		Analytical Method			
CONCENTRA	TION UNITS: mg/kg	Analytical Method	J. 3VV-040 (	3200	
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	0.250	Τυ	0.010	0.250
630-20-6	1.1.1.2-Tetrachloroethane	0.250	1 0	0.010	0.250
79-34-5	1,1,2,2-Tetrachloroethane	0.250	1 0	0.00323	0.250
120-82-1	1.2.4-Trichlorobenzene	0.250	1 0	0.014	0.250
71-55-6	1,1,1-Trichloroethane	0.250	1 0	0.013	0.250
79-00-5	1,1,2-Trichloroethane	0.250	1 0	0.012	0.250
75-69-4	Trichlorofluoromethane	0.250	1 0	0.00670	0.250
96-18-4	1,2,3-Trichloropropane	0.100	1 0	0.00070	0.100
95-63-6	1,2,4-Trimethylbenzene	0.250	1 0	0.017	0.250
108-67-8	1,3,5-Trimethylbenzene	0.250	<del>                                     </del>	0.012	0.250
75-01-4	Vinyl chloride	0.250	<del>                                     </del>	0.00675	0.250
95-47-6	o-Xylene	0.250	<del>                                     </del>	0.00945	0.250
96-12-8	1,2-Dibromo-3-chloropropane	0.250	<del>                                     </del>	0.040	0.250
106-93-4	1,2-Dibromoethane	0.250	<del>                                     </del>	0.012	0.250
108-05-4	Vinyl acetate	0.250	<del>l ü</del>	0.011	0.250
1634-04-4	tert-Butyl methyl ether (MTBE)	0.250	U	0.00835	0.250
99-87-6	4-Isopropyltoluene	0.250	<del>                                     </del>	0.013	0.250
1330-20-7	Xylene (total)	0.500	<del>                                     </del>	0.034	0.500
108-87-2	Methylcyclohexane	0.250	T U	0.00820	0.250
110-57-6	trans-1,4-Dichloro-2-butene	0.250	T U	0.028	0.250
110-82-7	Cyclohexane	0.250	<del>                                     </del>	0.00880	0.250
594-20-7	2,2-Dichloropropane	0.250	U	0.058	0.250
79-20-9	Methyl Acetate	0.250	Ū	0.017	0.250
76-13-1	Trichlorotrifluoroethane	0.250	U	0.058	0.250
563-58-6	1,1-Dichloropropene	0.250	U	0.010	0.250
110-75-8	2-Chloroethylvinyl ether	0.250	U	0.012	0.250
142-28-9	1,3-Dichloropropane	0.250	U	0.00895	0.250
108-86-1	Bromobenzene	0.250	U	0.015	0.250
95-49-8	2-Chlorotoluene	0.250	·U	0.013	0.250
106-43-4	4-Chlorotoluene	0.250	U	0.015	0.250
98-06-6	tert-Butylbenzene	0.250	U	0.012	0.250
135-98-8	sec-Butylbenzene	0.250	U	0.013	0.250

SAM	PLE	NO
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Lab Name: GC	AL	tract:			**************************************	
Lab Code: LA0	24 Case No.:		SAS No.:	SI	DG No.: 2110	11405
Matrix: (soil/wate	r) Solid		•			
Sample wt/vol:	5 (g/ml) g	-	Lab Sample ID:	913705		
	LOW			0118p/k9909		-
	dec.				Time:	
	TX-VMS-30 ID: .25					
Instrument ID:			Data Analyzadi			
Soil Extract Volui	me:		Dilution Factor:			
	me:					al Batch: 449157
	TION UNITS: mg/kg		Analytical Method			
CAS NO.	COMPOUND		RESULT	Q	MDL	RL
541-73-1	1,3-Dichlorobenzene		0.250	U	0.016	0.250
106-46-7	1,4-Dichlorobenzene		0.250	U	0.021	0.250
104-51-8	n-Butylbenzene		0.250	, U	0.017	0.250
95-50-1	1,2-Dichlorobenzene	-	0.250	U	0.016	0.250
87-68-3	Hexachlorobutadiene		0.250	U	0.012	0.250
91-20-3	Naphthalene		0.250	U	0.041	0.250
71-36-3	n-Butyl alcohol		1.25	U	0.915	1.25
75-35-4	1,1-Dichloroethene		0.250	U	0.033	0.250
71-43-2	Benzene		0.250	U	0.00685	0.250
79-01-6	Trichloroethene		0.250	U	0.012	0.250
108-88-3	Toluene		0.250	U	0.010	0.250
108-90-7	Chlorobenzene		0.250	U	0.00940	0.250

# 2A WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:			Contract:	 	
Lab Code:	LA024	Case No.:	SAS No.:	 SDG No.:	211011405
N 4 - 41 1 - 1	0144 0 40 0000				

Method: SW-846 8260

										TOT
	SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	OUT
1.	EQUIPMENT BLANK	97	П	99		102		96		0
2.	TRIP BLANK 1	96	П	99		100		94		0
3.	TRIP BLANK 2	95		98		100		95		0
4.	LCS913049	102	П	100		97		96		0
<b>5</b> .	LCSD913050	102		100		97		97		0
6.	MB913048	98	П	100		99		95		0

QC LIMITS

 SMC 1
 4-Bromofluorobenzene
 78
 - 130

 SMC 2
 Dibromofluoromethane
 77
 - 127

 SMC 3
 Toluene-d8
 76
 - 134

 SMC 4
 1,2-Dichloroethane-d4
 71
 - 127

# Column to be used to flag recovery values

^{*} Values outside of contract required QC limits

# 2B SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name	: GCAL			Contract:	 		•••
Lab Code:	LA024	Case No.:	30000000000000000000000000000000000000	SAS No.:	 SDG No.:	211011405	
Method:	SW-846 8260						

										TOT
	SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	OUT
1.	T-15-F	106		98		98	T	93	П	0
2.	T-15-F MS	103	П	100	П	96	T	96		0
3.	T-15-F MSD	101	П	100	П	97	T	99		0
4.	T-21-F	104		97	П	98	1	97	T	0
5.	NC-0-0.3	106		95		97	T	96		0
6.	T-2-WEST	99		102	П	99	T	102		0
7.	T-6-FLOOR	102		97		99		97		0
8.	T-6-EAST	104		98	П	99		98		0
9.	T-6-SOUTH	100		98		99		96	П	0
10 .	T-6-NORTH	105		97	П	96		97	П	0
11.	BLIND DUP	103	П	98	П	99	Т	97		0
12 .	SC-W	106		96	П	96		95		0
13 .	SC-E	106		97	П	97	П	96		0
14 .	LCS913052	102		100		97		96	П	0
15 .	LCS913706	103		99	П	96		101		0
16 .	LCSD913053	102		100		97		97	П	0
17 .	LCSD913707	104		102		99		100	П	0
18 .	MB913051	102		96		97		94		0
19 .	MB913705	98		101		99		102		0

### QC LIMITS

SMC 1	4-Bromofluorobenzene	62	- 127
SMC 2	Dibromofluoromethane	65	- 130
SMC 3	Toluene-d8	71	- 132
SMC 4	1,2-Dichloroethane-d4	62	- 125

[#] Column to be used to flag recovery values

^{*} Values outside of contract required QC limits

Lab Name: GCAL			Co	ntract:	***************************************				
Lab Code: LA024	Case No.:			S No.:	SDG N	lo.:	211011405		
Analytical Batch: 449012									
SAMPLE NO. : 913049 COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	#	QC.	LIMITS	
1,1,1,2-Tetrachloroethane	mg/L	.05	0	.049	98		75	- 124	
1,1,1-Trichloroethane	mg/L	.05	0	.046	93		76	- 126	
1,1,2,2-Tetrachloroethane	mg/L	.05	0	.058	116		70	- 122	
1,1,2-Trichloroethane	mg/L	.05	0	.047	94		72	- 121	
1,1-Dichloroethane	mg/L	.05	0	.047	94		74	- 127	
1,1-Dichloroethene	mg/L	.05	0	.046	93		69	- 129	
1.1-Dichloropropene	ma/l	05	0	047	94		72	- 131	

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* Values outside of QC limits

1,2,3-Trichloropropane

1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

1,2-Dibromoethane

1,2-Dichloroethane

1,2-Dichloropropane

1,3-Dichlorobenzene

1,3-Dichloropropane

1,4-Dichlorobenzene

2,2-Dichloropropane

2-Chloroethylvinyl ether

2-Butanone

2-Hexanone

Acetone

Acrolein

Acrylonitrile

Bromoform

Bromobenzene

Bromomethane

Benzene

2-Chlorotoluene

4-Chlorotoluene

4-Isopropyltoluene

4-Methyl-2-pentanone

Bromodichloromethane

1,3,5-Trimethylbenzene

1,2-Dichlorobenzene

1,2-Dibromo-3-chloropropane

RPD:	0	out of		74 (	outside	limits	
Spike R	ecove	ery:	0	out c	of 14	18 d	outside limits

[#] Column to be used to flag recovery and RPD values with an asterisk

Lab Name: GCAL			Cc	ontract:		
Lab Code: LA024	Case No	).:	SA	AS No.:	SDG N	o.: 211011405
Analytical Batch: 449012						
Carbon disulfide	mg/L	.05	0	.045	91	69 - 136
Carbon tetrachloride	mg/L	.05	. 0	.047	94	76 - 128
Chlorobenzene	mg/L	.05	0	.049	98	74 - 123
Chloroethane	mg/L	.05	0.	.047	94	62 - 141
Chloroform	mg/L	.05	0	.047	95	75 - 122
Chloromethane	mg/L	.05	0	.045	89	59 - 132
Cyclohexane	mg/L	.05	0	.048	97	69 - 132
Dibromochloromethane	mg/L	.05	0	.049	97	71 - 123
Dibromomethane	mg/L	.05	0	.047	93	72 - 129
Dichlorodifluoromethane	mg/L	.05	0	.044	88	58 - 140
Ethylbenzene	mg/L	.05	0	.048	95	74 - 126
Hexachlorobutadiene	mg/L	.05	0	.048	96	61 - 144
Isopropylbenzene (Cumene)	mg/L	.05	0	.048	96	71 - 125
Methyl Acetate	mg/L	.05	0	.052	103	57 - 139
Methyl iodide	mg/L	.05	0	.047	94	57 - 141
Methylcyclohexane	mg/L	.05	0	.047	95	67 - 138
Methylene chloride	mg/L	.05	0	.044	88	68 - 132
Naphthalene	mg/L	.05	0	.052	103	57 - 138
Styrene	mg/L	.05	0	.05	101	71 - 127
Tetrachloroethene	mg/L	.05	0	.047	94	68 - 128
Toluene	mg/L	.05	0	.048	97	72 - 120
Trichloroethene	mg/L	.05	0	.046	91	76 - 129
Trichlorofluoromethane	mg/L	.05	0	.046	93	72 - 136
Trichlorotrifluoroethane	mg/L	.05	0	.047	95	72 - 136
Vinyl acetate	mg/L	.05	0	.054	108	54 - 147

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tert-Butyl methyl ether (MTBE)

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

trans-1,4-Dichloro-2-butene

Vinyl chloride

Xylene (total)

m,p-Xylene

o-Xylene sec-Butylbenzene

n-Butylbenzene

n-Propylbenzene

tert-Butylbenzene

cis-1,2-Dichloroethene

cis-1,3-Dichloropropene

RPD:	0	out of		74 out	side lim	its
Spike R	ecove	ry:	0	out of	148	outside limits

mg/L # Column to be used to flag recovery and RPD values with an asterisk

^{*} Values outside of QC limits

Lab Name:	GCAL		Contract:		
Lab Code:	LA024	Case No.:	SAS No.:	SDG No.:	211011405

Analytical Batch: 449012

**SAMPLE NO. : 913050** 

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	#	% RPD	#	QC. REC	LIMITS RPD
1,1,1,2-Tetrachloroethane	mg/L	.05	.046	92		6		75 - 124	0 - 30
1,1,1-Trichloroethane	mg/L	.05	.045	89		2		76 - 126	0 - 30
1,1,2,2-Tetrachloroethane	mg/L	.05	.049	98		17		70 - 122	0 - 30
1,1,2-Trichloroethane	mg/L	.05	.043	86		9		72 - 121	0 - 30
1,1-Dichloroethane	mg/L	.05	.044	88		7		74 - 127	0 - 30
1,1-Dichloroethene	mg/L	.05	.045	90		2		69 - 129	0 - 20
1,1-Dichloropropene	mg/L	.05	.045	90		4		72 - 131	0 - 30
1,2,3-Trichloropropane	mg/L	.05	.044	88		13		70 - 120	0 - 30
1,2,4-Trichlorobenzene	mg/L	.05	.045	90		11		61 - 135	0 - 30
1,2,4-Trimethylbenzene	mg/L	.05	.046	92		4		74 - 125	0 - 30
1,2-Dibromo-3-chloropropane	mg/L	.05	.046	92		20		57 - 121	0 - 30
1,2-Dibromoethane	mg/L	.05	.043	86		9		70 - 124	0 - 30
1,2-Dichlorobenzene	mg/L	.05	.047	93		6		71 - 126	0 - 30
1,2-Dichloroethane	mg/L	.05	.043	86		9		71 - 129	0 - 30
1,2-Dichloropropane	mg/L	.05	.045	90		4		72 - 128	0 - 30
1,3,5-Trimethylbenzene	mg/L	.05	.046	93		6		71 - 132	0 - 30
1,3-Dichlorobenzene	mg/L	.05	.046	93		6		74 - 126	0 - 30
1,3-Dichloropropane	mg/L	.05	.043	87		9		74 - 122	0 - 30
1,4-Dichlorobenzene	mg/L	.05	.047	94		4		72 - 122	0 - 30
2,2-Dichloropropane	mg/L	.05	.045	90		4		77 - 124	0 - 30
2-Butanone	mg/L	.05	.047	94		17		58 - 137	0 - 30
2-Chloroethylvinyl ether	mg/L	.05	.032	64		27		56 - 124	0 - 30
2-Chlorotoluene	mg/L	.05	.047	93		4		72 - 127	0 - 30
2-Hexanone	mg/L	.05	.049	98		22		50 - 135	0 - 30
4-Chlorotoluene	mg/L	.05	.046	93		6		75 - 126	0 - 30
4-Isopropyltoluene	mg/L	.05	.046	92		4		71 - 129	0 - 30
4-Methyl-2-pentanone	mg/L	.05	.044	89		19		57 - 132	0 - 30
Acetone	mg/L	.05	.05	99		13		44 - 156	0 - 30
Acrolein	mg/L	.25	.287	115		8		30 - 160	0 - 30
Acrylonitrile	mg/L	.25	.235	94		9		64 - 137	0 - 30
Benzene	mg/L	.05	.044	89		7		70 - 129	0 - 20
Bromobenzene	mg/L	.05	.046	93		6		71 - 120	0 - 30
Bromodichloromethane	mg/L	.05	.045	89		4		74 - 125	0 - 30
Bromoform	mg/L	.05	.047	93		14		64 - 122	0 - 30
Bromomethane	mg/L	.05	.043	87		5		47 - 138	0 - 30

[#] Column to be used to flag recovery and RPD values with an asterisk

RPD :	0	out of		74 out	side lim	its
Spike	Recover	y:	0	out of	148	outside limits

^{*} Values outside of QC limits

Lab Name:	me: GCAL			Contract:				
Lab Code:	LA024	Case No.:		SAS No.:	>	SDG No.:	211011405	

Analytical Batch: 449012

Carbon disulfide	mg/L	.05	.044	88	2	69 - 136 0	- 30
Carbon tetrachloride	mg/L	.05	.045	90	4	76 - 128 0	
Chlorobenzene	mg/L	.05	.046	92	6	74 - 123 0	
Chloroethane	mg/L	.05	.044	88	7	62 - 141 0	- 30
Chloroform	mg/L	.05	.045	89	4	75 - 122 C	- 30
Chloromethane	mg/L	.05	.043	86	5	59 - 132 0	- 30
Cyclohexane	mg/L	.05	.046	92	4	69 - 132 0	- 30
Dibromochloromethane	mg/L	.05	.045	89	9	71 - 123 0	- 30
Dibromomethane	mg/L	.05	.043	86	9	72 - 129 0	- 30
Dichlorodifluoromethane	mg/L	.05	.043	85	2	58 - 140 0	- 30
Ethylbenzene	mg/L	.05	.045	91	6	74 - 126 0	- 30
Hexachlorobutadiene	mg/L	.05	.047	93	2	61 - 144 0	- 30
Isopropylbenzene (Cumene)	mg/L	.05	.045	90	6	71 - 125 0	- 30
Methyl Acetate	mg/L	.05	.043	85	19	57 - 139 0	- 30
Methyl iodide	mg/L	.05	.046	92	2	57 - 141 C	- 30
Methylcyclohexane	mg/L	.05	.045	91	4	67 - 138 0	- 30
Methylene chloride	mg/L	.05	.042	84	5	68 - 132 0	- 30
Naphthalene	mg/L	.05	.043	85	19	57 - 138 C	- 35
Styrene	mg/L	.05	.047	94	6	71 - 127 0	- 30
Tetrachloroethene	mg/L	.05	.045	90	4	68 - 128 C	- 30
Toluene	mg/L	.05	.046	92	4	72 - 120 0	- 20
Trichloroethene	mg/L	.05	.044	88	4	76 - 129 0	- 20
Trichlorofluoromethane	mg/L	.05	.045	90	2	72 - 136 0	- 30
Trichlorotrifluoroethane	mg/L	.05	.045	91	4	72 - 136 C	- 30
Vinyl acetate	mg/L	.05	.05	100	8	54 - 147 C	- 30
Vinyl chloride	mg/L	.05	.043	85	7	68 - 132 0	- 30
Xylene (total)	mg/L	.15	.137	91	4	74 - 127 C	- 30
cis-1,2-Dichloroethene	mg/L	.05	.044	88	7	73 - 130 C	- 30
cis-1,3-Dichloropropene	mg/L	.05	.045	90	6	71 - 132 0	- 30
m,p-Xylene	mg/L	.1	.092	92	4	74 - 126 0	- 30
n-Butylbenzene	mg/L	.05	.046	92	4	69 - 134 0	- 30
n-Propylbenzene	mg/L	.05	.047	94	4	75 - 129 0	- 30
o-Xylene	mg/L	.05	.045	90	6	73 - 130 0	- 30
sec-Butylbenzene	mg/L	.05	.046	93	6	70 - 136 0	- 30
tert-Butyl methyl ether (MTBE)	mg/L	.05	.044	87	7	71 - 125 0	- 30
tert-Butylbenzene	mg/L	.05	.047	93	2	72 - 126 0	- 30
trans-1,2-Dichloroethene	mg/L	.05	.044	89	4	69 - 132 0	- 30
trans-1,3-Dichloropropene	mg/L	.05	.045	90	6	71 - 131 0	- 30
trans-1,4-Dichloro-2-butene	mg/L	.05	.047	93	16	56 - 132 0	- 30

[#] Column to be used to flag recovery and RPD values with an asterisk

RPD :	0	out of		74 out	side lim	its
Spike Re	ecove	ry:	0	out of	148	outside limits

^{*} Values outside of QC limits

## 3B SOIL VOLATILE MS/MSD RECOVERY

Lab Name: GCAL		Sam	ple ID T-15-F		
Lab Code: LA024	Case No.:	SAS	No.:	SDG No.:	211011405
Contract:		Meth	od: SW-846 8260		
Analytical Batch: 449013					
SAMPLE NO: 21101140502	SPIKE	SAMPLE	MS	MS %	
COMPOUND	UNITS ADDED	CONCENTRATION	CONCENTRATION	REC	# QC. LIMITS
1,1,1,2-Tetrachloroethane	mg/kg 3.04	0	2.97	98	77 - 122
1,1,1-Trichloroethane	mg/kg 3.04	0	2.93	96	70 - 130
1,1,2,2-Tetrachloroethane	mg/kg 3.04	0	2.77	91	66 - 129
1,1,2-Trichloroethane	mg/kg 3.04	0	2.71	89	74 - 120
1,1-Dichloroethane	mg/kg 3.04	0	2.97	98	71 - 126
1,1-Dichloroethene	mg/kg 3.04	0	2.94	97	68 - 129
1,1-Dichloropropene	mg/kg 3.04	0	2.95	97	70 - 138
1,2,3-Trichloropropane	mg/kg 3.04	0	2.58	85	63 - 132
1,2,4-Trichlorobenzene	mg/kg 3.04	0	2.71	89	64 - 135
1,2,4-Trimethylbenzene	mg/kg 3.04	0	3.01	99	75 - 130
1,2-Dibromo-3-chloropropane	mg/kg 3.04	0	2.53	83	60 - 123
1,2-Dibromoethane	mg/kg 3.04	0	2.75	90	74 - 122
1,2-Dichlorobenzene	mg/kg 3.04	0	2.96	97	76 - 125
1,2-Dichloroethane	mg/kg 3.04	0	2.85	94	68 - 126
1,2-Dichloropropane	mg/kg 3.04	0	3	99	72 - 129
1,3,5-Trimethylbenzene	mg/kg 3.04	0	3.01	99	74 - 136
1,3-Dichlorobenzene	mg/kg 3.04	0	2.98	98	77 - 127
1,3-Dichloropropane	mg/kg 3.04	0	2.79	92	77 - 121
1,4-Dichlorobenzene	mg/kg 3.04	0	3	99	74 - 123
2,2-Dichloropropane	mg/kg 3.04	0	2.91	96	74 - 129
2-Butanone	mg/kg 3.04	0	2.73	90	47 - 142
2-Chloroethylvinyl ether	mg/kg 3.04	0	2.18	72	42 - 134
2-Chlorotoluene	mg/kg 3.04	0	3.01	99	75 - 132
2-Hexanone	mg/kg 3.04	0	2.71	89	47 - 137
4-Chlorotoluene	mg/kg 3.04	0	3.03	100	74 - 133
4-Isopropyltoluene	mg/kg 3.04	0	2.95	97	71 - 136
4-Methyl-2-pentanone	mg/kg 3.04	0	2.57	84	52 - 136
Acetone	mg/kg 3.04	0	2.84	93	38 - 152
Acrolein	mg/kg 15.2	0	1.05	7 *	34 - 158
Acrylonitrile	mg/kg 15.2	0	13	86	49 - 142
Benzene	mg/kg 3.04	0	3.1	102	73 - 128
Bromobenzene	mg/kg 3.04	0	3.02	99	73 - 124
Bromodichloromethane	mg/kg 3.04	0	2.97	98	74 - 126
Bromoform	mg/kg 3.04	0	2.77	91	67 - 122
Bromomethane	mg/kg 3.04	0	2.78	92	48 - 139
Carbon disulfide	mg/kg 3.04	0	2.94	97	68 - 133

RPD:	6	out of	74		side lim	its
Spike R	ecove	erv:	3	out of	148	outside limits

[#] Column to be used to flag recovery and RPD values with an asterisk

^{*} Values outside of QC limits

#### 3B SOIL VOLATILE MS/MSD RECOVERY

Lab Name: GCAL			Samp	ole ID T-15-F		
Lab Code: LA024	Case N	lo.:	SAS	No.:	SDG No	.: 211011405
Contract:			Metho	od: SW-846 8260		
Analytical Batch: 449013						
Carbon tetrachloride	mg/kg	3.04	0	2.9	95	71 - 133
Chlorobenzene	mg/kg	3.04	0	3.01	99	75 - 121
Chloroethane	mg/kg	3.04	0	2.64	87	57 - 144
Chloroform	mg/kg	3.04	.638	2.96	76	74 - 124
Chloromethane	mg/kg	3.04	0	2.63	86	61 - 130
Cyclohexane	mg/kg	3.04	0	3	99	70 - 136
Dibromochloromethane	mg/kg	3.04	0	2.84	93	74 - 122
Dibromomethane	mg/kg	3.04	0	2.81	92	72 - 125
Dichlorodifluoromethane	mg/kg	3.04	0	2.75	90	59 - 138
Ethylbenzene	mg/kg	3.04	0	2.94	97	74 - 130
Hexachlorobutadiene	mg/kg	3.04	0	2.76	91	71 - 140
Isopropylbenzene (Cumene)	mg/kg	3.04	0	2.91	96	74 - 125
Methyl Acetate	mg/kg	3.04	0	2.76	91	49 - 138
Methyl iodide	mg/kg	3.04	0	3.14	103	54 - 140
Methylcyclohexane	mg/kg	3.04	0	2.88	95	70 - 142
Methylene chloride	mg/kg	3.04	0	2.85	94	66 - 130
Naphthalene	mg/kg	3.04	0	2.42	80	54 - 132
Styrene	mg/kg	3.04	0	3.08	101	72 - 128
Tetrachloroethene	mg/kg	3.04	0	2.89	95	70 - 127
Toluene	mg/kg	3.04	0	3.02	99	74 - 121
Trichloroethene	mg/kg	3.04	.112	2.96	94	78 - 127
Trichlorofluoromethane	mg/kg	3.04	0	2.96	97	64 - 141
Trichlorotrifluoroethane	mg/kg	3.04	0	2.9	95	66 - 139
Vinyl acetate	mg/kg	3.04	0	2.13	70	53 - 140
Vinyl chloride	mg/kg	3.04	0	2.76	91	67 - 131
Xylene (total)	mg/kg	9.12	0	8.97	98	71 - 129
cis-1,2-Dichloroethene	mg/kg	3.04	.198	2.96	91	72 - 130
cis-1,3-Dichloropropene	mg/kg	3.04	0	2.96	97	72 - 129
m,p-Xylene	mg/kg	6.08	0	5.97	98	72 - 128
n-Butylbenzene	mg/kg	3.04	0	2.95	97	68 - 144
n-Propylbenzene	mg/kg	3.04	0	3.01	99	73 - 137
o-Xylene	mg/kg	3.04	0	3	99	69 - 133
sec-Butylbenzene	mg/kg	3.04	0	2.97	98	72 - 141
tert-Butyl methyl ether (MTBE)	mg/kg	3.04	0	2.77	91	69 - 126
tert-Butylbenzene	mg/kg	3.04	0	2.97	98	72 - 136
trans-1,2-Dichloroethene	mg/kg	3.04	0	2.97	98	67 - 134
trans-1,3-Dichloropropene	mg/kg	3.04	0	2.88	95	72 - 126
trans-1,4-Dichloro-2-butene	mg/kg	3.04	0	2.67	88	44 - 146

# Column to be used to flag recovery and RPD values with an aste
------------------------------------------------------------------

RPD : 6	_out of_	74	outs	side lim	nits
Spike Recove	ry:	3 о	ut of	148	outside limits

^{*} Values outside of QC limits

# 3B SOIL VOLATILE MS/MSD RECOVERY

Lab Name: GCAL			Sample ID T-15-F						
Lab Code: LA024	Case No.:	SA	AS No.:	***************************************	•••••	SDG	No.: 2110114	405	
Contract:		Me	ethod: SW-8	46 8260					
Analytical Batch: 449013									
SAMPLE NO : 21101140	0503								
COMPOUND	SPIKE UNITS ADDED	MSD CONC.	MSD % REC	#	% RPD	#	QC. REC	LIMITS RPD	
1,1,1,2-Tetrachloroethane	mg/kg 2.47	2.38	96		22		77 - 122	0 - 30	
1,1,1-Trichloroethane	mg/kg 2.47	2.3	93		24		70 - 130	0 - 30	
1,1,2,2-Tetrachloroethane	mg/kg 2.47	2.36	96		16		66 - 129	0 - 30	
1,1,2-Trichloroethane	mg/kg 2.47	2.27	92		18		74 - 120	0 - 30	
1,1-Dichloroethane	mg/kg 2.47	2.34	95		24		71 - 126	0 - 30	
1,1-Dichloroethene	mg/kg 2.47	2.28	92		25	*	68 - 129	0 - 22	
1,1-Dichloropropene	mg/kg 2.47	2.3	93		25		70 - 138	0 - 30	
1,2,3-Trichloropropane	mg/kg 2.47	2.21	89		15		63 - 132	0 - 30	
1,2,4-Trichlorobenzene	mg/kg 2.47	2.3	93		16		64 - 135	0 - 30	
1,2,4-Trimethylbenzene	mg/kg 2.47	2.34	95		25		75 - 130	0 - 30	
1,2-Dibromo-3-chloropropane	mg/kg 2.47	2.3	93		9		60 - 123	0 - 30	
1,2-Dibromoethane	mg/kg 2.47	2.28	92		19		74 - 122	0 - 30	
1,2-Dichlorobenzene	mg/kg 2.47	2.39	96		21		76 - 125	0 - 30	
1,2-Dichloroethane	mg/kg 2.47	2.33	94		20		68 - 126	0 - 30	
1,2-Dichloropropane	mg/kg 2.47	2.34	95		25		72 - 129	0 - 30	
1,3,5-Trimethylbenzene	mg/kg 2.47	2.34	95		25		74 - 136	0 - 30	
1,3-Dichlorobenzene	mg/kg 2.47	2.35	95		24		77 - 127	0 - 30	
1,3-Dichloropropane	mg/kg 2.47	2.3	93		19		77 - 121	0 - 30	
1,4-Dichlorobenzene	mg/kg 2.47	2.36	96		24		74 - 123	0 - 30	
2,2-Dichloropropane	mg/kg 2.47	2.24	91		26		74 - 129	0 - 30	
2-Butanone	mg/kg 2.47	2.54	103		7		47 - 142	0 - 30	
2-Chloroethylvinyl ether	mg/kg 2.47	1.91	77		13		42 - 134	0 - 30	
2-Chlorotoluene	mg/kg 2.47	2.36	96		24		75 - 132	0 - 30	
2-Hexanone	mg/kg 2.47	2.55	103		6		47 - 137	0 - 30	
4-Chlorotoluene	mg/kg 2.47	2.35	95		25		74 - 133	0 - 30	

# Column to be used to flag recovery and RPD values with an asterisk

2.47

2.47

2.47

12.4

12.4

2.47

2.47

2.47

2.47

2.47

2.47

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

2.32

2.39

2.6

2.45

11.7

2.36

2.36

2.35

2.39

2.27

2.27

94

96

105

20

95

96

96

95

96

92

92

24

7

9

80

11

27

24

23

15

20

26

71 -

52

38

34

49 - 142

73

73

74

67

48

- 139

- 152

136

136

158

128

124

126

122

133

- 30

30

30

30

21

30

30

30

30

0

0

0 - 30

0

0

0

0 -

0

0

0 - 30

0

*	Values	outside	of QC	limits
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4-Isopropyltoluene

Acetone

Acrolein

Benzene

Acrylonitrile

Bromoform

Bromobenzene

Bromomethane

Carbon disulfide

Bromodichloromethane

4-Methyl-2-pentanone

RPD: 6 out of 74 outside limits

Spike Recovery: 3 out of 148 outside limits

#### 3B SOIL VOLATILE MS/MSD RECOVERY

Lab Name: GCAL	Sample ID T-15-F								
Lab Code: LA024		SAS No.: SDG No.: 211011405							
Contract:				Method: SW-846 8260					
Analytical Batch: 449013									
Carbon tetrachloride	mg/kg	2.47	2.26	91	25	TT	71 - 133	0 - 30	
Chlorobenzene	mg/kg	2.47	2.39	96	23	*	75 - 121	0 - 21	
Chloroethane	mg/kg	2.47	1.72	69	42	*	57 - 144	0 - 30	
Chloroform	mg/kg	2.47	2.38	70	* 22		74 - 124	0 - 30	
Chloromethane	mg/kg	2.47	2.13	86	21		61 - 130	0 - 30	
Cyclohexane	mg/kg	2.47	2.36	96	24		70 - 136	0 - 30	
Dibromochloromethane	mg/kg	2.47	2.3	93	21		74 - 122	0 - 30	
Dibromomethane	mg/kg	2.47	2.28	92	21		72 - 125	0 - 30	
Dichlorodifluoromethane	mg/kg	2.47	2.13	86	25		59 - 138	0 - 30	
Ethylbenzene	mg/kg	2.47	2.29	93	25		74 - 130	0 - 30	
Hexachlorobutadiene	mg/kg	2.47	2.3	93	18		71 - 140	0 - 30	
Isopropylbenzene (Cumene)	mg/kg	2.47	2.33	94	22		74 - 125	0 - 30	
Methyl Acetate	mg/kg	2.47	2.48	100	10		49 - 138	0 - 30	
Methyl iodide	mg/kg	2.47	2.58	104	20		54 - 140	0 - 30	
Methylcyclohexane	mg/kg	2.47	2.26	91	24		70 - 142	0 - 30	
Methylene chloride	mg/kg	2.47	2.22	90	25		66 - 130	0 - 30	
Naphthalene	mg/kg	2.47	2.28	92	6		54 - 132	0 - 30	
Styrene	mg/kg	2.47	2.47	100	22		72 - 128	0 - 30	
Tetrachloroethene	mg/kg	2.47	2.28	92	24		70 - 127	0 - 30	
Toluene	mg/kg	2.47	2.39	96	23	*	74 - 121	0 - 21	
Trichloroethene	mg/kg	2.47	2.34	90	23		78 - 127	0 - 24	
Trichlorofluoromethane	mg/kg	2.47	2.27	92	26		64 - 141	0 - 30	
Trichlorotrifluoroethane	mg/kg	2.47	2.27	92	24		66 - 139	0 - 30	
Vinyl acetate	mg/kg	2.47	1.78	72	18		53 - 140	0 - 30	
Vinyl chloride	mg/kg	2.47	2.18	88	23		67 - 131	0 - 30	
Xylene (total)	mg/kg	7.43	7.04	95	24		71 - 129	0 - 30	
cis-1,2-Dichloroethene	mg/kg	2.47	2.32	86	24		72 - 130	0 - 30	
cis-1,3-Dichloropropene	mg/kg	2.47	2.39	96	21		72 - 129	0 - 30	
m,p-Xylene	mg/kg	4.95	4.69	95	24		72 - 128	0 - 30	
n-Butylbenzene	mg/kg	2.47	2.32	94	24		68 - 144	0 - 30	
n-Propylbenzene	mg/kg	2.47	2.34	95	25		73 - 137	0 - 30	
o-Xylene	mg/kg	2.47	2.35	95	24		69 - 133	0 - 30	
sec-Butylbenzene	mg/kg	2.47	2.32	94	25		72 - 141	0 - 30	
tert-Butyl methyl ether (MTBE)	mg/kg	2.47	2.34	95	17		69 - 126	0 - 30	
tert-Butylbenzene	mg/kg	2.47	2.32	94	25		72 - 136	0 - 30	
trans-1,2-Dichloroethene	mg/kg	2.47	2.32	94	25		67 - 134	0 - 30	
trans-1,3-Dichloropropene	mg/kg	2.47	2.38	96	19		72 - 126	0 - 30	
trans-1,4-Dichloro-2-butene	mg/kg	2.47	2.4	97	11		44 - 146	0 - 30	

#	Cal	ıımn	to	ha	need	tο	flan	recovery	and	RPD	values	with	an	actor	iek
#	COI	umm	ω	De	useu	ω	IIau	recovery	anu	RPU	values	willi	all	aster	ISK

RPD :	6	out of	•	01	utside	limits		
Spike	Recover	y:	3	out of	14	8 0	outside limits	S

^{*} Values outside of QC limits

# 3B SOIL VOLATILE LCS/LCSD RECOVERY

Contract:		3	Meth	od: SW-846 8260					
Contract:			ivietn	od: Svv-846 8260			***************************************	·····	
Analytical Batch: 449013									
SAMPLE NO: 913052		SPIKE	SAMPLE	LCS	LCS %				
COMPOUND	UNITS		CONCENTRATION	CONCENTRATION	REC	#	QC.	LIMIT	
,1,1,2-Tetrachloroethane	mg/kg	2.5	0	2.45	98		77	- 12	
,1,1-Trichloroethane	mg/kg	2.5	0	2.32	93		70	- 13	
,1,2,2-Tetrachloroethane	mg/kg	2.5	0	2.9	116		66	- 12	
,1,2-Trichloroethane	mg/kg	2.5	, 0	2.34	94		74	- 12	
1-Dichloroethane	mg/kg	2.5	0	2.36	94		71	- 12	
,1-Dichloroethene	mg/kg	2.5	0	2.32	93		68	- 12	
,1-Dichloropropene	mg/kg	2.5	0	2.35	94		70	- 13	
,2,3-Trichloropropane	mg/kg	2.5	0	2.5	100		63	- 13	
,2,4-Trichlorobenzene	mg/kg	2.5	0	2.51	100		64	- 13	
,2,4-Trimethylbenzene	mg/kg	2.5	0	2.42	97		75	- 13	
2-Dibromo-3-chloropropane	mg/kg	2.5	0	2.8	112		60	- 12	
,2-Dibromoethane	mg/kg	2.5	0	2.34	94		74	- 12	
2-Dichlorobenzene	mg/kg	2.5	0	2.49	100		76	- 12	
2-Dichloroethane	mg/kg	2.5	0	2.33	93		68	- 12	
,2-Dichloropropane	mg/kg	2.5	0	2.35	94		72	- 12	
,3,5-Trimethylbenzene	mg/kg	2.5	0	2.42	97		74	- 13	
,3-Dichlorobenzene	mg/kg	2.5	0	2.45	98		77	- 12	
,3-Dichloropropane	mg/kg	2.5	0	2.34	94		77	- 12	
,4-Dichlorobenzene	mg/kg	2.5	0	2.46	98		74	- 12	
,2-Dichloropropane	mg/kg	2.5	0	2.37	95		74	- 12	
-Butanone	mg/kg	2.5	0	2.8	112		47	- 14	
-Chloroethylvinyl ether	mg/kg	2.5	0	2.11	84		42	- 13	
-Chlorotoluene	mg/kg	2.5	0	2.46	98		75	- 13	
-Hexanone	mg/kg	2.5	0	3.03	121		47	- 13	
-Chlorotoluene	mg/kg	2.5	0	2.44	98		74	- 13	
-Isopropyltoluene	mg/kg	2.5	0	2.4	96		71	- 13	
-Methyl-2-pentanone	mg/kg	2.5	0	2.64	106		52	- 13	
cetone	mg/kg	2.5	0	2.84	114		38	- 15	
crolein	mg/kg	12.5	0	15.5	124		34	- 15	
crylonitrile	mg/kg	12.5	0	12.9	103		49	- 14	
enzene	mg/kg	2.5	0	2.33	93		73	- 12	
romobenzene	mg/kg	2.5	0	2.43	97		73	- 12	
romodichloromethane	mg/kg	2.5	0	2.37	95		74	- 12	
romoform	mg/kg	2.5	0	2.68	107		67	- 12	
romomethane	mg/kg	2.5	0	2.27	91	$\neg \uparrow$	48	- 13	
Carbon disulfide	mg/kg	2.5	0	2.27	91	$\dashv$	68	- 13	

FORM III VOA-2

RPD: 0 out of 74 outside limits

Spike Recovery: 0 out of 148 outside limits

#### 3B SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL			•••••			
Lab Code: LA024	Case N	o.:	SAS	No.:	SDG No	o.: 211011405
Contract:			Metho	od: SW-846 8260		
Analytical Batch: 449013						
Carbon tetrachloride	mg/kg	2.5	0	2.35	94	71 - 133
Chlorobenzene	mg/kg	2.5	0	2.44	98	75 - 121
Chloroethane	mg/kg	2.5	0	2.34	94	57 - 144
Chloroform	mg/kg	2.5	0	2.37	95	74 - 124
Chloromethane	mg/kg	2.5	0	2.23	89	61 - 130
Cyclohexane	mg/kg	2.5	0	2.42	97	70 - 136
Dibromochloromethane	mg/kg	2.5	0	2.44	98	74 - 122
Dibromomethane	mg/kg	2.5	0	2.32	93	72 - 125
Dichlorodifluoromethane	mg/kg	2.5	0	2.21	88	59 - 138
Ethylbenzene	mg/kg	2.5	0	2.37	95	74 - 130
Hexachlorobutadiene	mg/kg	2.5	0	2.39	96	71 - 140
Isopropylbenzene (Cumene)	mg/kg	2.5	0	2.39	96	74 - 125
Methyl Acetate	mg/kg	2.5	0	2.58	103	49 - 138
Methyl iodide	mg/kg	2.5	0	2.35	94	54 - 140
Methylcyclohexane	mg/kg	2.5	0	2.37	95	70 - 142
Methylene chloride	mg/kg	2.5	0	2.21	88	66 - 130
Naphthalene	mg/kg	2.5	0	2.58	103	54 - 132
Styrene	mg/kg	2.5	0	2.51	100	72 - 128
Tetrachloroethene	mg/kg	2.5	0	2.35	94	70 - 127
Toluene	mg/kg	2.5	0	2.42	97	74 - 121
Trichloroethene	mg/kg	2.5	0	2.28	91	78 - 127
Trichlorofluoromethane	mg/kg	2.5	0	2.32	93	64 - 141
Trichlorotrifluoroethane	mg/kg	2.5	0	2.36	94	66 - 139
Vinyl acetate	mg/kg	2.5	0	2.69	108	53 - 140
Vinyl chloride	mg/kg	2.5	0	2.29	92	67 - 131
Xylene (total)	mg/kg	7.5	0	7.17	96	71 - 129
cis-1,2-Dichloroethene	mg/kg	2.5	0	2.33	93	72 - 130
cis-1,3-Dichloropropene	mg/kg	2.5	0	2.39	96	72 - 129
m,p-Xylene	mg/kg	5	0	4.79	96	72 - 128
n-Butylbenzene	mg/kg	2.5	0	2.41	96	68 - 144
n-Propylbenzene	mg/kg	2.5	0	2.43	97	73 - 137
o-Xylene	mg/kg	2.5	0	2.38	95	69 - 133
sec-Butylbenzene	mg/kg	2.5	0	2.43	97	72 - 141
tert-Butyl methyl ether (MTBE)	mg/kg	2.5	0	2.37	95	69 - 126
tert-Butylbenzene	mg/kg	2.5	0	2.39	96	72 - 136
trans-1,2-Dichloroethene	mg/kg	2.5	0	2.29	92	67 - 134
trans-1,3-Dichloropropene	mg/kg	2.5	0	2.41	96	72 - 126
trans-1,4-Dichloro-2-butene	mg/kg	2.5	0	2.76	110	44 - 146

# Column to be used t	o flag recover	y and RPD	values with	an asterisk
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RPD : 0 out of 74 outside limits

Spike Recovery: 0 out of 148 outside limits

^{*} Values outside of QC limits

#### 3B SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL									
Lab Code: LA024	Case No	).:		SAS No.:			SDG	No.: 2110114	105
Contract:				Method: SW-846 8260					
Analytical Batch: 449013									
SAMPLE NO: 913053		SPIKE		1.000		0/		00	LIMITO
COMPOUND	UNITS	ADDED	LCSD CON	C. LCSD REC	#	% RPD	#	REC	LIMITS RPD
1,1,1,2-Tetrachloroethane	mg/kg	2.5	2.29	92		7		77 - 122	0 - 30
1,1,1-Trichloroethane	mg/kg	2.5	2.22	89		4		70 - 130	0 - 30
1,1,2,2-Tetrachloroethane	mg/kg	2.5	2.45	98		17		66 - 129	0 - 30
1,1,2-Trichloroethane	mg/kg	2.5	2.15	86		8		74 - 120	0 - 30
1,1-Dichloroethane	mg/kg	2.5	2.21	88		7		71 - 126	0 - 30
1,1-Dichloroethene	mg/kg	2.5	2.24	90	T	4		68 - 129	0 - 30
1,1-Dichloropropene	mg/kg	2.5	2.24	90		5		70 - 138	0 - 30
1,2,3-Trichloropropane	mg/kg	2.5	2.19	88		13		63 - 132	0 - 30
1,2,4-Trichlorobenzene	mg/kg	2.5	2.25	90		11		64 - 135	0 - 30
1,2,4-Trimethylbenzene	mg/kg	2.5	2.31	92		5		75 - 130	0 - 30
1,2-Dibromo-3-chloropropane	mg/kg	2.5	2.31	92		19		60 - 123	0 - 30
1,2-Dibromoethane	mg/kg	2.5	2.14	86		9		74 - 122	0 - 30
1,2-Dichlorobenzene	mg/kg	2.5	2.33	93		7		76 - 125	0 - 30
1,2-Dichloroethane	mg/kg	2.5	2.16	86		8		68 - 126	0 - 30
1,2-Dichloropropane	mg/kg	2.5	2.25	90		4		72 - 129	0 - 30
1,3,5-Trimethylbenzene	mg/kg	2.5	2.32	93		4		74 - 136	0 - 30
1,3-Dichlorobenzene	mg/kg	2.5	2.32	93		5		77 - 127	0 - 30
1,3-Dichloropropane	mg/kg	2.5	2.17	87		8 .		77 - 121	0 - 30
1,4-Dichlorobenzene	mg/kg	2.5	2.34	94		5		74 - 123	0 - 30
2,2-Dichloropropane	mg/kg	2.5	2.25	90		5		74 - 129	0 - 30
2-Butanone	mg/kg	2.5	2.34	94		18		47 - 142	0 - 30
2-Chloroethylvinyl ether	mg/kg	2.5	1.61	64		27		42 - 134	0 - 30
2-Chlorotoluene	mg/kg	2.5	2.33	93		5		75 - 132	0 - 30
2-Hexanone	mg/kg	2.5	2.44	98		22		47 - 137	0 - 30
4-Chlorotoluene	mg/kg	2.5	2.32	93		5		74 - 133	0 - 30
4-Isopropyltoluene	mg/kg	2.5	2.3	92		4		71 - 136	0 - 30
4-Methyl-2-pentanone	mg/kg	2.5	2.21	88		18		52 - 136	0 - 30
Acetone	mg/kg	2.5	2.49	100		13		38 - 152	0 - 30
Acrolein	ma/ka	12.5	14.3	114		8		34 - 158	0 - 30

# Column to be used to flag recovery and RPD values with an asterisk

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

12.5

2.5

2.5

2.5

2.5

2.5

2.5

11.7

2.22

2.32

2.23

2.33

2.17

2.21

*	Values	outside	of	QC	limits
	values	outside	OΤ	QU	IIIIIIts

Acrylonitrile

Bromoform

Bromobenzene

Bromomethane

Carbon disulfide

Bromodichloromethane

Benzene

RPD: 0	out of	74	out	side limit	s
Spike Recover	<b>y</b> :	0	out of	148	outside limits

FORM III VOA-2

94

89

93

89

93

87

88

10

5

5

6

14

5

3

49 - 142

128

124

126

122

139

133

73 -

73 -

74 -

67 -

-

48

68

0 - 30

- 30

30

30

30

- 30

0

0

0

0 - 30

# 3B SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL										
Lab Code: LA024	Case No.	:		SAS No.:	•	SDG No.: 211011405				
Contract:				Method: SW-8	46 8260					
Analytical Batch: 449013										
Carbon tetrachloride	mg/kg	2.5	2.24	90	5	71 - 133 0 - 30				
Chlorobenzene	mg/kg	2.5	2.31	92	5	75 - 121 0 - 30				
Chloroethane	mg/kg	2.5	2.21	88	6	57 - 144 0 - 30				
Chloroform	mg/kg	2.5	2.23	89	6	74 - 124 0 - 30				
Chloromethane	mg/kg	2.5	2.14	86	4	61 - 130 0 - 30				
Cyclohexane	mg/kg	2.5	2.3	92	5	70 - 136 0 - 30				
Dibromochloromethane	mg/kg	2.5	2.22	89	9	74 - 122 0 - 30				
Dibromomethane	mg/kg	2.5	2.14	86	8	72 - 125 0 - 30				
Dichlorodifluoromethane	mg/kg	2.5	2.13	85	4	59 - 138 0 - 30				
Ethylbenzene	mg/kg	2.5	2.26	90	5	74 - 130 0 - 30				
Hexachlorobutadiene	mg/kg	2.5	2.33	93	3	71 - 140 0 - 30				
Isopropylbenzene (Cumene)	mg/kg	2.5	2.26	90	6	74 - 125 0 - 30				
Methyl Acetate	mg/kg	2.5	2.13	85	19	49 - 138 0 - 30				
Methyl iodide	mg/kg	2.5	2.29	92	3	54 - 140 0 - 30				
Methylcyclohexane	mg/kg	2.5	2.26	90	5	70 - 142 0 - 30				
Methylene chloride	mg/kg	2.5	2.1	84	5	66 - 130 0 - 30				
Naphthalene	mg/kg	2.5	2.13	85	19	54 - 132 0 - 30				
Styrene	mg/kg	2.5	2.35	94	7	72 - 128 0 - 30				
Tetrachloroethene	mg/kg	2.5	2.24	90	5	70 - 127 0 - 30				
Toluene	mg/kg	2.5	2.31	92	5	74 - 121 0 - 30				
Trichloroethene	mg/kg	2.5	2.2	88	4	78 - 127 0 - 30				
Trichlorofluoromethane	mg/kg	2.5	2.25	90	3	64 - 141 0 - 30				
Trichlorotrifluoroethane	mg/kg	2.5	2.27	91	4	66 - 139 0 - 30				
Vinyl acetate	mg/kg	2.5	2.49	100	8	53 - 140 0 - 30				
Vinyl chloride	mg/kg	2.5	2.13	85	7	67 - 131 0 - 30				
Xylene (total)	mg/kg	7.5	6.84	91	5	71 - 129 0 - 30				
cis-1,2-Dichloroethene	mg/kg	2.5	2.2	88	6	72 - 130 0 - 30				
cis-1,3-Dichloropropene	mg/kg	2.5	2.25	90	6	72 - 129 0 - 30				
m,p-Xylene	mg/kg	5	4.59	92	4	72 - 128 0 - 30				
n-Butylbenzene	mg/kg	2.5	2.31	92	4	68 - 144 0 - 30				
n-Propylbenzene	mg/kg	2.5	2.34	94	4	73 - 137 0 - 30				
o-Xylene	mg/kg	2.5	2.25	90	6	69 - 133 0 - 30				
sec-Butylbenzene	mg/kg	2.5	2.32	93	5	72 - 141 0 - 30				
tert-Butyl methyl ether (MTBE)	mg/kg	2.5	2.17	87	9	69 - 126 0 - 30				
tert-Butylbenzene	mg/kg	2.5	2.32	93	3	72 - 136 0 - 30				
trans-1,2-Dichloroethene	mg/kg	2.5	2.22	89	3	67 - 134 0 - 30				
trans-1,3-Dichloropropene	mg/kg	2.5	2.25	90	7	72 - 126 0 - 30				
trans-1,4-Dichloro-2-butene	mg/kg	2.5	2.33	93	17	44 - 146 0 - 30				

RPD : 0 out of 74 outside limits

Spike Recovery: 0 out of 148 outside limits

^{*} Values outside of QC limits

# 3B SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL								
Lab Code: LA024	Case N	lo.:	SAS	No.:	SDG N	o.: <b>21</b>	101140	5
Contract:			Meth	od: SW-846 8260		***************************************		
Analytical Batch: 449157								
SAMPLE NO: 913706		SPIKE	SAMPLE	LCS	LCS %			
COMPOUND	UNITS	ADDED	CONCENTRATION	CONCENTRATION	REC	#	QC.	LIMITS
1,1,1,2-Tetrachloroethane	mg/kg	2.5	0	2.44	98		77	- 122
1,1,1-Trichloroethane	mg/kg	2.5	0	2.62	105		70	- 130
1,1,2,2-Tetrachloroethane	mg/kg	2.5	0	2.54	102		66	- 129
1,1,2-Trichloroethane	mg/kg	2.5	0	2.6	104		74	- 120
1,1-Dichloroethane	mg/kg	2.5	0	2.74	110		71	- 126
1,1-Dichloroethene	mg/kg	2.5	0	2.67	107		68	- 129
1,1-Dichloropropene	mg/kg	2.5	0	2.65	106		70	- 138
1,2,3-Trichloropropane	mg/kg	2.5	0	2.58	103		63	- 132
1,2,4-Trichlorobenzene	mg/kg	2.5	0	2.8	112		64	- 135
1,2,4-Trimethylbenzene	mg/kg	2.5	0	2.65	106		75	- 130
1,2-Dibromo-3-chloropropane	mg/kg	2.5	0	2.73	109		60	- 123
1,2-Dibromoethane	mg/kg	2.5	0	2.68	107		74	- 122
1,2-Dichlorobenzene	mg/kg	2.5	0	2.61	104		76	- 125
1,2-Dichloroethane	mg/kg	2.5	0	2.66	106		68	- 126
1,2-Dichloropropane	mg/kg	2.5	0	2.72	109		72	- 129
1,3,5-Trimethylbenzene	mg/kg	2.5	0	2.7	108		74	- 136
1,3-Dichlorobenzene	mg/kg	2.5	0	2.57	103		77	- 127
1,3-Dichloropropane	mg/kg	2.5	0	2.56	102		77	- 121
1,4-Dichlorobenzene	mg/kg	2.5	0	2.53	101		74	- 123
2,2-Dichloropropane	mg/kg	2.5	0	2.67	107		74	- 129
2-Butanone	mg/kg	2.5	0	2.8	112		47	- 142
2-Chloroethylvinyl ether	mg/kg	2.5	0	2.47	99		42	- 134
2-Chlorotoluene	mg/kg	2.5	0	2.55	102		75	- 132
2-Hexanone	mg/kg	2.5	0	2.75	110		47	- 137
4-Chlorotoluene	mg/kg	2.5	0	2.61	104		74	- 133
4-Isopropyltoluene	mg/kg	2.5	0	2.76	110		71	- 136
4-Methyl-2-pentanone	mg/kg	2.5	0	2.82	113		52	- 136
Acetone	mg/kg	2.5	0	2.58	103		38	- 152
Acrolein	mg/kg	12.5	0	11.6	93		34	- 158
Acrylonitrile	mg/kg	12.5	0	12.8	102		49	- 142
Benzene	mg/kg	2.5	0	2.56	102		73	- 128
Bromobenzene	mg/kg	2.5	0	2.41	96		73	- 124
Bromodichloromethane	mg/kg	2.5	0	2.71	108		74	- 126
Bromoform	mg/kg	2.5	0	2.75	110		67	- 122
Bromomethane	mg/kg	2.5	0	2.53	101		48	- 139
Carbon disulfide	mg/kg	2.5	0	2.85	114		68	- 133

RPD :0	out of	74		side limit	ts
Spike Recover	y:	0	out of	148	outside limits

[#] Column to be used to flag recovery and RPD values with an asterisk

^{*} Values outside of QC limits

## 3B SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL			***************************************			
Lab Code: LA024	Case No.:	***************************************	SAS	No.:	SDG No	o.: 211011405
Contract:			Metho	od: SW-846 8260		
Analytical Batch: 449157						
Carbon tetrachloride	mg/kg	2.5	0	2.83	113	71 - 133
Chlorobenzene	mg/kg	2.5	0	2.5	100	75 - 121
Chloroethane	mg/kg	2.5	0	2.83	113	57 - 144
Chloroform	mg/kg	2.5	0	2.67	107	74 - 124
Chloromethane	mg/kg	2.5	0	2.66	106	61 - 130
Cyclohexane	mg/kg	2.5	0	2.74	110	70 - 136
Dibromochloromethane	mg/kg	2.5	0	2.65	106	74 - 122
Dibromomethane	mg/kg	2.5	0	2.69	108	72 - 125
Dichlorodifluoromethane	mg/kg	2.5	0	2.83	113	59 - 138
Ethylbenzene	mg/kg	2.5	0	2.47	99	74 - 130
Hexachlorobutadiene	mg/kg	2.5	0	2.89	116	71 - 140
Isopropylbenzene (Cumene)	mg/kg	2.5	0	2.72	109	74 - 125
Methyl Acetate	mg/kg	2.5	0	2.78	111	49 - 138
Methyl iodide	mg/kg	2.5	0	2.18	87	54 - 140
Methylcyclohexane	mg/kg	2.5	0	2.91	116	70 - 142
Methylene chloride	mg/kg	2.5	. 0	2.57	103	66 - 130
Naphthalene	mg/kg	2.5	0	2.9	116	54 - 132
Styrene	mg/kg	2.5	0	2.65	106	72 - 128
Tetrachloroethene	mg/kg	2.5	0	2.61	104	70 - 127
Toluene	mg/kg	2.5	0	2.48	99	74 - 121
Trichloroethene	mg/kg	2.5	0	2.59	104	78 - 127
Trichlorofluoromethane	mg/kg	2.5	0	2.73	109	64 - 141
Trichlorotrifluoroethane	mg/kg	2.5	0	2.79	112	66 - 139
Vinyl acetate	mg/kg	2.5	0	1.84	74	53 - 140
Vinyl chloride	mg/kg	2.5	0	2.67	107	67 - 131
Xylene (total)	mg/kg	7.5	0	7.71	103	71 - 129
cis-1,2-Dichloroethene	mg/kg	2.5	0	2.7	108	72 - 130
cis-1,3-Dichloropropene	mg/kg	2.5	0	2.81	112	72 - 129
m,p-Xylene	mg/kg	5	0	5.11	102	72 - 128
n-Butylbenzene	mg/kg	2.5	0	2.88	115	68 - 144
n-Propylbenzene	mg/kg	2.5	0	2.6	104	73 - 137
o-Xylene	mg/kg	2.5	0	2.6	104	69 - 133
sec-Butylbenzene	mg/kg	2.5	0	2.73	109	72 - 141
tert-Butyl methyl ether (MTBE)	mg/kg	2.5	0	2.66	106	69 - 126
tert-Butylbenzene	mg/kg	2.5	0	2.63	105	72 - 136
trans-1,2-Dichloroethene	mg/kg	2.5	0	2.65	106	67 - 134
trans-1,3-Dichloropropene	mg/kg	2.5	0	2.75	110	72 - 126
trans-1,4-Dichloro-2-butene	mg/kg	2.5	0	2.58	103	44 - 146

-11	O = 1	4- 1		£1	recovery	1			:41-		
#	L.OIIIMn	to be	lised to	TIAC	recover	ana	RPD	values	with	an	asterisk
,,	Ocidiiii		acca to	1149	,	unu		*aiacc	** ** **	<b>u</b>	actorior.

RPD	: 0	out o		74	outsi	de I	imits		
Spike	Recover	ν.	0	out	of	148	3 (	outside li	mits

^{*} Values outside of QC limits

# 3B SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL								
Lab Code: LA024	Case No.:		SAS No.:			SDG I	No.: 2110114	405
Contract:			Method: SW-846 8260					
Analytical Batch: 449157								
<b>SAMPLE NO</b> : 913707	e pive				0.6		00	LIBAITO
COMPOUND	SPIKE UNITS ADDED	LCSD CON	IC. KEC	#	% RPD	#	REC	LIMITS RPD
1,1,1,2-Tetrachloroethane	mg/kg 2.5	2.33	93		5		77 - 122	0 - 30
1,1,1-Trichloroethane	mg/kg 2.5	2.62	105		0		70 - 130	0 - 30
1,1,2,2-Tetrachloroethane	mg/kg 2.5	2.37	95		7		66 - 129	0 - 30
1,1,2-Trichloroethane	mg/kg 2.5	2.49	100		4		74 - 120	0 - 30
1,1-Dichloroethane	mg/kg 2.5	2.65	106		3		71 - 126	0 - 30
1,1-Dichloroethene	mg/kg 2.5	2.6	104		3		68 - 129	0 - 30
1,1-Dichloropropene	mg/kg 2.5	2.54	102		4		70 - 138	0 - 30
1,2,3-Trichloropropane	mg/kg 2.5	2.35	94		9		63 - 132	0 - 30
1,2,4-Trichlorobenzene	mg/kg 2.5	2.52	101		11		64 - 135	0 - 30
1,2,4-Trimethylbenzene	mg/kg 2.5	2.41	96		9		75 - 130	0 - 30
1,2-Dibromo-3-chloropropane	mg/kg 2.5	2.54	102		7		60 - 123	0 - 30
1,2-Dibromoethane	mg/kg 2.5	2.53	101		6		74 - 122	0 - 30
1,2-Dichlorobenzene	mg/kg 2.5	2.36	94		10		76 - 125	0 - 30
1,2-Dichloroethane	mg/kg 2.5	2.49	100		7		68 - 126	0 - 30
1,2-Dichloropropane	mg/kg 2.5	2.64	106		3		72 - 129	0 - 30
1,3,5-Trimethylbenzene	mg/kg 2.5	2.45	98		10		74 - 136	0 - 30
1,3-Dichlorobenzene	mg/kg 2.5	2.35	94		9		77 - 127	0 - 30
1,3-Dichloropropane	mg/kg 2.5	2.45	98		4		77 - 121	0 - 30
1,4-Dichlorobenzene	mg/kg 2.5	2.33	93		8		74 - 123	0 - 30
2,2-Dichloropropane	mg/kg 2.5	2.65	106		.8		74 - 129	0 - 30
2-Butanone	mg/kg 2.5	2.53	101		10		47 - 142	0 - 30
2-Chloroethylvinyl ether	mg/kg 2.5	2.81	112		13		42 - 134	0 - 30
2-Chlorotoluene	mg/kg 2.5	2.37	95		7		75 - 132	0 - 30
2-Hexanone	mg/kg 2.5	2.67	107		3		47 - 137	0 - 30
4-Chlorotoluene	mg/kg 2.5	2.38	95		9		74 - 133	0 - 30
4-Isopropyltoluene	mg/kg 2.5	2.44	98		12		71 - 136	0 - 30
4-Methyl-2-pentanone	mg/kg 2.5	2.77	111		2		52 - 136	0 - 30
Acetone	mg/kg 2.5	2.67	107		3		38 - 152	0 - 30
Acrolein	mg/kg 12.5	11.6	93		0		34 - 158	0 - 30
Acrylonitrile	mg/kg 12.5	12.7	102		.8		49 - 142	0 - 30
Benzene	mg/kg 2.5	2.52	101		2		73 - 128	0 - 30
Bromobenzene	mg/kg 2.5	2.23	89		8		73 - 124	0 - 30
Bromodichloromethane	mg/kg 2.5	2.68	107		1		74 - 126	0 - 30
Bromoform	mg/kg 2.5	2.6	104		6	$\Box$	67 - 122	0 - 30
Bromomethane	mg/kg 2.5	2.51	100		.8	$\Box$	48 - 139	0 - 30
Carbon disulfide	mg/kg 2.5	2.75	110		4		68 - 133	0 - 30

RPD	. 0	out of	7		outside	limits	•
Spike	Recover	y:	0	out o	of 14	8	outside limits

[#] Column to be used to flag recovery and RPD values with an asterisk

^{*} Values outside of QC limits

## 3B SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL									
Lab Code: LA024 Case No.:				SAS No.: SDG No.: 211011405					
Contract:				Method: SW-846 8260					
Analytical Batch: 449157									
Carbon tetrachloride	mg/kg	2.5	2.74	110	3	71 - 133	0 - 30		
Chlorobenzene	mg/kg	2.5	2.45	98	2	75 - 121	0 - 30		
Chloroethane	mg/kg	2.5	2.8	112	1	57 - 144	0 - 30		
Chloroform	mg/kg	2.5	2.62	105	2	74 - 124	0 - 30		
Chloromethane	mg/kg	2.5	2.88	115	8	61 - 130	0 - 30		
Cyclohexane	mg/kg	2.5	2.54	102	8	70 - 136	0 - 30		
Dibromochloromethane	mg/kg	2.5	2.65	106	0	74 - 122	0 - 30		
Dibromomethane	mg/kg	2.5	2.51	100	7	72 - 125	0 - 30		
Dichlorodifluoromethane	mg/kg	2.5	3.04	122	7	59 - 138	0 - 30		
Ethylbenzene	mg/kg	2.5	2.43	97	2	74 - 130	0 - 30		
Hexachlorobutadiene	mg/kg	2.5	2.42	97	18	71 - 140	0 - 30		
Isopropylbenzene (Cumene)	mg/kg	2.5	2.59	104	5	74 - 125	0 - 30		
Methyl Acetate	mg/kg	2.5	2.89	116	4	49 - 138	0 - 30		
Methyl iodide	mg/kg	2.5	2.18	87	0	54 - 140	0 - 30		
Methylcyclohexane	mg/kg	2.5	2.76	110	5	70 - 142	0 - 30		
Methylene chloride	mg/kg	2.5	2.48	99	4	66 - 130	0 - 30		
Naphthalene	mg/kg	2.5	2.73	109	6	54 - 132	0 - 30		
Styrene	mg/kg	2.5	2.65	106	0	72 - 128	0 - 30		
Tetrachloroethene	mg/kg	2.5	2.48	99	5	70 - 127	0 - 30		
Toluene	mg/kg	2.5	2.47	99	.4	74 - 121	0 - 30		
Trichloroethene	mg/kg	2.5	2.59	104	0	78 - 127	0 - 30		
Trichlorofluoromethane	mg/kg	2.5	2.7	108	1	64 - 141	0 - 30		
Trichlorotrifluoroethane	mg/kg	2.5	2.67	107	4	66 - 139	0 - 30		
Vinyl acetate	mg/kg	2.5	1.61	64	13	53 - 140	0 - 30		
Vinyl chloride	mg/kg	2.5	2.89	116	8	67 - 131	0 - 30		
Xylene (total)	mg/kg	7.5	7.6	101	1	71 - 129	0 - 30		
cis-1,2-Dichloroethene	mg/kg	2.5	2.58	103	5	72 - 130	0 - 30		
cis-1,3-Dichloropropene	mg/kg	2.5	2.63	105	7	72 - 129	0 - 30		
m,p-Xylene	mg/kg	5	5.1	102	.2	72 - 128	0 - 30		
n-Butylbenzene	mg/kg	2.5	2.55	102	12	68 - 144	0 - 30		
n-Propylbenzene	mg/kg	2.5	2.34	94	11	73 - 137	0 - 30		
o-Xylene	mg/kg	2.5	2.5	100	4	69 - 133	0 - 30		
sec-Butylbenzene	mg/kg	2.5	2.39	96	13	72 - 141	0 - 30		
tert-Butyl methyl ether (MTBE)	mg/kg	2.5	2.61	104	2	69 - 126	0 - 30		
tert-Butylbenzene	mg/kg	2.5	2.36	94	11	72 - 136	0 - 30		
trans-1,2-Dichloroethene	mg/kg	2.5	2.64	106	.4	67 - 134	0 - 30		
trans-1,3-Dichloropropene	mg/kg	2.5	2.5	100	10	72 - 126	0 - 30		
trans-1,4-Dichloro-2-butene	mg/kg	2.5	2.21	88	15	44 - 146	0 - 30		

# Column to be us	sed to flag reco	overy and F	RPD values	with an	asterisk
* Values autoide d	of OC limite				

RPD: 0	out of	74		ide lim	nits
Spike Recovery	<b>/</b> :	0	out of	148	outside limits

#### 4A VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.	
 MB913048	

Lab Name:	GCAL		Contract:				
Lab Code:	LA024	Case No.:	SAS No.:		SDG No.: 211011405		
Lab File ID:	2110116/a8963		Lab Sample ID:	913048	Date Extracted:		
GC Column:	RTX-VMS-30	ID: .25 (mm	Date Analyzed:	01/16/11	Time: 1033		
Instrument I	D: MSV11	Matrix: Water	Heated Purge: N				
Level: LO\	<b>W</b>		ricated range.		····		
Prep Batch:		Analytical Batch: 449012	2				

## THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS913049	913049	2110116/a8960L	01/16/11	0923
2.	LCSD913050	913050	2110116/a8961	01/16/11	0946
3.	EQUIPMENT BLANK	21101140514	2110116/a8966	01/16/11	1142
4.	TRIP BLANK 1	21101140515	2110116/a8967	01/16/11	1205
5.	TRIP BLANK 2	21101140516	2110116/a8968	01/16/11	1228

## 4A VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.	
MB913051	

Lab Name: GCAL		Contract:	
Lab Code: LA024	Case No.:	SAS No.:	SDG No.: 211011405
Lab File ID: 2110116/a8964		Lab Sample ID: 913051	Date Extracted:
GC Column: RTX-VMS-30	ID: .25 (mm	Date Analyzed: 01/16/11	Time: 1055
Instrument ID: MSV11	Matrix: Solid	Heated Purge: Y	***************************************
Level: LOW		;	***************************************
Pren Ratch	Analytical Batch: 44901:	3	

#### THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

		LAB	LAB	DATE	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
1.	LCS913052	913052	2110116/a8960s	01/16/11	0923
2.	LCSD913053	913053	2110116/a8961s	01/16/11	0946
3.	T-15-F	21101140501	2110116/a8965	01/16/11	1118
4.	T-15-F MS	21101140502	2110116/a8972	01/16/11	1401
<b>5</b> .	T-15-F MSD	21101140503	2110116/a8973	01/16/11	1425
6.	T-21-F	21101140504	2110116/a8977	01/16/11	1603
7.	NC-0-0.3	21101140505	2110116/a8978	01/16/11	1627
8.	T-6-NORTH	21101140510	2110116/a8979	01/16/11	1651
9.	SC-W	21101140512	2110116/a8980	01/16/11	1715
10 .	SC-E	21101140513	2110116/a8981	01/16/11	1739
11.	T-6-FLOOR	21101140507	2110116/a8982	01/16/11	1809
12.	T-6-EAST	21101140508	2110116/a8984	01/16/11	1857
13 .	T-6-SOUTH	21101140509	2110116/a8985	01/16/11	1922
14 .	BLIND DUP	21101140511	2110116/a8986	01/16/11	1946

# 4A VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.	
MB913705	

Lab Name:	GCAL		Contract:	
Lab Code:	LA024	Case No.:	SAS No.:	SDG No.: 211011405
Lab File ID:	2110118p/k9909		Lab Sample ID: 913705	Date Extracted:
GC Column:	RTX-VMS-30	ID: .25 (mm	Date Analyzed: 01/18/11	Time: 1455
Instrument I	D: MSV5	Matrix: Solid	Heated Purge: Y	***************************************
Level: LO\	<b>N</b>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Prep Batch:		Analytical Batch: 44915	7	

#### THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

		LAB	LAB	DATE	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
1.	LCS913706	913706	2110118p/k9905	01/18/11	1319
2.	LCSD913707	913707	2110118p/k9906	01/18/11	1342
3.	T-2-WEST	21101140506	2110118p/k9911	01/18/11	1541

Lab Name:	GCAL			Contract:				
Lab Code:	LA024	Case No.:		SAS No.:		SDG No.:	211011405	
Lab File ID:	2110114/a8912B			BFB Injection Date:	01/14/11			
Instrument I	D: MSV11			BFB Injection Time:	0948			
GC Column	: RTX-VMS-30	ID: .25	(mm					
Analytical B	atch: 448996							

m/e	ION ABUNDANCE CRITERIA		% Relative Abundance				
50	15.0 - 40.0% of mass 95	19.72	(		)	-	
75	30.0 - 60.0% of mass 95	48.91	(		)		
95	Base Peak, 100% relative abundance	100	(		)		
96	5.0 -9.0% of mass 95	6.73	(		)		District Control
173	Less than 2.0% of mass 174	.24	(	.29	)	1	
174	50.0 - 120.0% of mass 95	85.86	(		)		
175	5.0 - 9.0% of mass 174	6.7	(	7.81	)	1	
176	95.0 - 101.0% of mass 174	82.19	(	95.73	)	1	
177	5.0 - 9.0% of mass 176	5.39	(	6.56	)	2	

¹⁻ Value is % mass 174

2- Value is % mass 176

		LAB	LAB	DATE	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
1.	V11STD001PPB	1208	2110114/a8914	01/14/11	1109
2.	V11STD005PPB	1201	2110114/a8915	01/14/11	1141
3.	V11STD010PPB	1206	2110114/a8916	01/14/11	1209
4.	V11STD020PPB	1202	2110114/a8917	01/14/11	1241
<b>5</b> .	V11STD050PPB	1203	2110114/a8918	01/14/11	1315
6.	V11STD100PPB	1204	2110114/a8919	01/14/11	1348
7.	V11STD200PPB	1205	2110114/a8920	01/14/11	1428
8.	V11ICV	1600	2110114/a8922	01/14/11	1530

Lab Name: GCAL	Contract:
Lab Code: LA024 Case No.:	SAS No.: SDG No.: 211011405
Lab File ID: 2110115/a8930B	BFB Injection Date: 01/15/11
Instrument ID: MSV11	BFB Injection Time: 0816
GC Column: RTX-VMS-30 ID: .25 (mm	
Analytical Batch: 449014	

 m / e
 ION ABUNDANCE CRITERIA
 % Relative Abundance

 50
 15.0 - 40.0% of mass 95
 21.8 (

50	15.0 - 40.0% of mass 95	21.8	(		)		
75	30.0 - 60.0% of mass 95	48.58	(		)		
95	Base Peak, 100% relative abundance	100	(		)		
96	5.0 -9.0% of mass 95	6.81	(		)		
173	Less than 2.0% of mass 174	.49	(	.56	)	1	
174	50.0 - 120.0% of mass 95	88.74	(		)		
175	5.0 - 9.0% of mass 174	6.88	(	7.76	)	1	
176	95.0 - 101.0% of mass 174	86.84	(	97.86	)	1	
177	5.0 - 9.0% of mass 176	5.34	(	6.16	)	2	

¹⁻ Value is % mass 174

2- Value is % mass 176

		LAB	LAB	DATE	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
1.	V11STD005PPB	1201	2110115/a8933	01/15/11	0957
2.	V11STD010PPB	1206	2110115/a8934	01/15/11	1021
3.	V11STD020PPB	1202	2110115/a8935	01/15/11	1045
4.	V11STD050PPB	1203	2110115/a8936	01/15/11	1109
5.	V11STD100PPB	1204	2110115/a8937	01/15/11	1132
6.	V11STD200PPB	1205	2110115/a8938	01/15/11	1155
7.	V11STD001PPB	1208	2110115/a8941	01/15/11	1306
8.	V11ICV	1600	2110115/a8944	01/15/11	1459

Lab Name:	GCAL			Contract:			
Lab Code:	LA024	Case No.:		SAS No.:		SDG No.:	211011405
Lab File ID:	2110116/a8958			BFB Injection Date:	01/16/11		
Instrument I	D: MSV11			BFB Injection Time:	0811	***************************************	
GC Column	RTX-VMS-30	ID: .25	(mm				
Analytical B	atch: 449012						

% Relative Abundance m/e ION ABUNDANCE CRITERIA 15.0 - 40.0% of mass 95 19.89 ( ) 75 30.0 - 60.0% of mass 95 50.58 ) ( 95 Base Peak, 100% relative abundance 100 ( ) 96 5.0 -9.0% of mass 95 6.63 ) ( 173 Less than 2.0% of mass 174 0 ( ) 174 50.0 - 120.0% of mass 95 88.66 ( ) 175 5.0 - 9.0% of mass 174 7.54 ( 8.51 ) 176 95.0 - 101.0% of mass 174 87.03 ( 98.17 ) 177 5.0 - 9.0% of mass 176 5.51 ( 6.34 ) 2

2- Value is % mass 176

		LAB	LAB	DATE	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
1.	V11STD050APP9	1400	2110116/a8959	01/16/11	0859
2.	V11STD050	1400	2110116/a8960	01/16/11	0923
3.	LCS913049	913049	2110116/a8960L	01/16/11	0923
4.	LCSD913050	913050	2110116/a8961	01/16/11	0946
5.	MB913048	913048	2110116/a8963	01/16/11	1033
6.	EQUIPMENT BLANK	21101140514	2110116/a8966	01/16/11	1142
7.	TRIP BLANK 1	21101140515	2110116/a8967	01/16/11	1205
8.	TRIP BLANK 2	21101140516	2110116/a8968	01/16/11	1228

¹⁻ Value is % mass 174

Lab Name: GCAL	Contract:				
Lab Code: LA024 Case No.:	SAS No.:	SDG No.: 211011405			
Lab File ID: 2110116/a8958s	BFB Injection Date: 01/16/11	***************************************			
Instrument ID: MSV11	BFB Injection Time: 0811	······································			
GC Column: RTX-VMS-30 ID: .25 (mm					
Analytical Batch: 449013					

 m / e
 ION ABUNDANCE CRITERIA
 % Relative Abundance

 50
 15.0 - 40.0% of mass 95
 19.89 (

50	15.0 - 40.0% of mass 95	19.89	(		)	
75	30.0 - 60.0% of mass 95	50.58	(		)	
95	Base Peak, 100% relative abundance	100	(		)	
96	5.0 -9.0% of mass 95	6.63	(		)	
173	Less than 2.0% of mass 174	0	(	0	)	1
174	50.0 - 120.0% of mass 95	88.66	(		)	
175	5.0 - 9.0% of mass 174	7.54	(	8.51	)	1
176	95.0 - 101.0% of mass 174	87.03	(	98.17	)	1
177	5.0 - 9.0% of mass 176	5.51	(	6.34	)	2

¹⁻ Value is % mass 174

2- Value is % mass 176

		LAB	LAB	DATE	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
1.	V11STD050APP9	1400	2110116/a8959s	01/16/11	0859
2.	V11STD050	1400	2110116/a8960s	01/16/11	0923
3.	LCS913052	913052	2110116/a8960s	01/16/11	0923
4.	LCSD913053	913053	2110116/a8961s	01/16/11	0946
5.	MB913051	913051	2110116/a8964	01/16/11	1055
6.	T-15-F	21101140501	2110116/a8965	01/16/11	1118
7.	T-15-F MS	21101140502	2110116/a8972	01/16/11	1401
8.	T-15-F MSD	21101140503	2110116/a8973	01/16/11	1425
9.	T-21-F	21101140504	2110116/a8977	01/16/11	1603
10 .	NC-0-0.3	21101140505	2110116/a8978	01/16/11	1627
11.	T-6-NORTH	21101140510	2110116/a8979	01/16/11	1651
12 .	SC-W	21101140512	2110116/a8980	01/16/11	1715
13 .	SC-E	21101140513	2110116/a8981	01/16/11	1739
14 .	T-6-FLOOR	21101140507	2110116/a8982	01/16/11	1809
15 .	T-6-EAST	21101140508	2110116/a8984	01/16/11	1857
16.	T-6-SOUTH	21101140509	2110116/a8985	01/16/11	1922

FORM V VOA

Lab Name:	GCAL				Contract:						
Lab Code:	LA024	Case No.	:		SAS No.:		SDG No.:	211011405			
Lab File ID:	2110116/a8958s				BFB Injection Date:	01/16/11	•••••				
Instrument I	D: MSV11				BFB Injection Time:	0811					
GC Column:	RTX-VMS-30	ID:	.25	(mm							
Analytical Ba	atch: 449013										
17	. BLIND DUP			2110114	10511 2110116/a898	6 01/16/	11	1946			

Lab Name: GCAL	Contract:							
Lab Code: LA024 Case No.:		SAS No.:		SDG No.:	211011405			
Lab File ID: 2110107/k9745		BFB Injection Date:	01/07/11					
Instrument ID: MSV5		BFB Injection Time:	1024		•			
GC Column: RTX-VMS-30 ID: _2	25 (mm							
Analytical Batch: 448597								

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance						
50	15.0 - 40.0% of mass 95	20.1	(		)			
75	30.0 - 60.0% of mass 95	48.92	(		)			
95	Base Peak, 100% relative abundance	100	(		)			
96	5.0 -9.0% of mass 95	6.24	(		)			
173	Less than 2.0% of mass 174	0	(	0	)	1		
174	50.0 - 120.0% of mass 95	74.06	(		,)			
175	5.0 - 9.0% of mass 174	5.84	(	7.89	)	1		
176	95.0 - 101.0% of mass 174	72.34	(	97.69	)	1		
177	5.0 - 9.0% of mass 176	4.32	(	5.98	)	2		

¹⁻ Value is % mass 174

2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

		LAB	LAB	DATE	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
1.	V5APP9	1207	2110107/k9746	01/07/11	1114
2.	V5APP9	1201	2110107/k9747	01/07/11	1136
3.	V5APP9	1202	2110107/k9749	01/07/11	1221
4.	V5APP9	1203	2110107/k9750	01/07/11	1243
<b>5</b> .	V5APP9	1204	2110107/k9751	01/07/11	1306
6.	V5APP9	1205	2110107/k9752	01/07/11	1330
7.	V5APP9	1206	2110107/k9755	01/07/11	1542
8.	APP9ICV	1600	2110107/k9756	01/07/11	1604

Lab Name: GCAL	Contract:							
Lab Code: LA024 Case No.:	SAS No.: SDG No.: 211011405							
Lab File ID: 2110107p/k9757	BFB Injection Date: 01/07/11							
Instrument ID: MSV5	BFB Injection Time: 1702							
GC Column: RTX-VMS-30 ID: .25 (mm								
Analytical Batch: 448598								

m/e	ION ABUNDANCE CRITERIA		% Relative Abundance				
50	15.0 - 40.0% of mass 95	20.56	(		)		
75	30.0 - 60.0% of mass 95	47.75	(		) .		
95	Base Peak, 100% relative abundance	100	(		)		
96	5.0 -9.0% of mass 95	5.95	(		)		
173	Less than 2.0% of mass 174	0	(	0	)	1	
174	50.0 - 120.0% of mass 95	70.28	(		)		
175	5.0 - 9.0% of mass 174	5.23	(	7.45	)	1	
176	95.0 - 101.0% of mass 174	67.79	(	96.47	)	1	
177	5.0 - 9.0% of mass 176	4.52	(	6.68	)	2	

¹⁻ Value is % mass 174

2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

		LAB	LAB	DATE	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
1.	V5STD001	1207	2110107p/k9758	01/07/11	1808
2.	V5STD005	1201	2110107p/k9759	01/07/11	1830
3.	V5STD010	1206	2110107p/k9760	01/07/11	1854
4.	V5STD020	1202	2110107p/k9761	01/07/11	1916
5.	V5STD050	1203	2110107p/k9762	01/07/11	1938
6.	V5STD100	1204	2110107p/k9763	01/07/11	2001
7.	V5STD200	1205	2110107p/k9764	01/07/11	2023
8.	8260ICV	1600	2110107p/k9766	01/07/11	2107

Lab Name: GCAL	ame: GCAL Contract:		
Lab Code: LA024 Case No.:	SAS No.:	SDG No.: 211011405	
Lab File ID: 2110118p/k9903	BFB Injection Date:	01/18/11	
Instrument ID: MSV5	BFB Injection Time:	1233	
GC Column: RTX-VMS-30 ID:	25 (mm		
Analytical Batch: 449157			

# m / e ION ABUNDANCE CRITERIA % Relative Abundance 50 15.0 - 40.0% of mass 95 20.55 (

50	15.0 - 40.0% of mass 95	20.55	(		)	
75	30.0 - 60.0% of mass 95	49.57	(		)	
95	Base Peak, 100% relative abundance	100	(		)	
96	5.0 -9.0% of mass 95	6.7	(		)	
173	Less than 2.0% of mass 174	0	(	0	)	1
174	50.0 - 120.0% of mass 95	66.86	(		)	
175	5.0 - 9.0% of mass 174	4.76	(	7.12	)	1
176	95.0 - 101.0% of mass 174	64.27	(	96.13	)	1
177	5.0 - 9.0% of mass 176	4.62	(	7.2	)	2

¹⁻ Value is % mass 174

2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

		LAB	LAB	DATE	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
1.	V5STD050	1400	2110118p/k9905	01/18/11	1319
2.	LCS913706	913706	2110118p/k9905	01/18/11	1319
3.	LCSD913707	913707	2110118p/k9906	01/18/11	1342
4.	APP9050	1400	2110118p/k9907	01/18/11	1409
5.	MB913705	913705	2110118p/k9909	01/18/11	1455
6.	T-2-WEST	21101140506	2110118p/k9911	01/18/11	1541

Report Date: 19-Jan-2011 15:25

#### GCAL, Inc.

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE

Method file : /var/chem/msv11.i/2110115.s.b/8260bw11.m

Cal Date : 17-Jan-2011 11:24 rjo

#### Calibration File Names:

Level 1: /var/chem/msv11.i/2110115.s.b/a8933.d Level 2: /var/chem/msv11.i/2110115.s.b/a8935.d Level 3: /var/chem/msv11.i/2110115.s.b/a8936.d Level 4: /var/chem/msv11.i/2110115.s.b/a8937.d Level 5: /var/chem/msv11.i/2110115.s.b/a8938.d Level 6: /var/chem/msv11.i/2110115.s.b/a8934.d Level 8: /var/chem/msv11.i/2110115.s.b/a8941.d

Compound	5     Level 1	20   Level 2	50   Level 3	100   Level 4	200   Level 5	10   Level 6	  Curve		Coefficients m1	m2	%RSD   or R^2
	1   Level 8		   		 		 				! ! !
1 Dichlorodifluoromethane	6632    2135		75492     75492	150506	320108	13376		I	0.27251		0.99984
2 Chloromethane ++	7252    2266		75385  	150507	328124		      LINR	0.00438	0.27788		0.99964
3 Vinyl Chloride +	0.36512		0.39431	0.37207	·		AVRG		0.39064		11.97194
4 1-3 Butadiene	7133    2203		69780  	152023	'	15201	٠. '	-0.04410	i		0.99694   0.9

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD
Target Version : 3.50
Integrator : HP RT
Method file : /var/ : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo

	l 5 l	20	50	100	200	10	1 1		Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	1     Level 8	 		   			! ! ! !				1
			=======================================	ا   =========				========			-   ========
5 Bromomethane	6063    2299		70090  	142408	1		LINR	0.00385			0.9998
6 Chloroethane	0.17453	0.18338	0.19858	0.20153	0.23264	0.17687			0.19846		1 11.2361
9 Trichlorofluoromethane	9289	37439    37439	1	214118	451394	18529	  LINR	0.00626	0.38506		0.9998
12 Ethyl Ether	0.21450	0.22668  	1		0.25358	0.20294	I I	.	0.23958		1 12.0810
7 2-Chloropropene	+++++	+++++	+++++	 +++++   	+++++	++++	I I	,   	-   0.000e+00		0.000e+0
13 1,1-Dichloroethene +	5369    1748	23008	i	129632	277078	11291		0.01176	0.23607		0.9998
21 Carbon Disulfide	   16063    7384	67943	•	•	•	33280		0.02059	i i		-      0.9995
									-		-

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD Target Version : 3.50 Integrator Method file : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo

	l 5 l	20	50	100	200	10		C	Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
	   1     Level 8	   	   		 		     				1 1
19 1,1,2Trichlotrifluoroethane	======    5671    1890	   22682 	•	135080		11407			1		           0.99981
14 Methyl Iodide	0.26231	0.28128	0.31986  	0.32299	1	0.26604		 	0.30814		1 13.23544
156 Ethanol	   +++++     +++++	 +++++   	 +++++   	+++++	+++++   	++++	I I	!	0.000e+00		
8 Acrolein	   0.01153    0.01222	·	0.01344	0.01294	0.01349	0.01360		!	-         0.01283		1 5.985241
17 Allyl chloride	   0.26253    0.35272	0.27219	0.28914	0.30097	1	0.24939	I I	,   	0.29040		1 11.78337
18 Methylene Chloride	   0.35520    0.47118	,	0.34073	0.33185	0.33994	0.34634	1 1	   	-         0.35966		-             13.85566
11 Acetone	   0.11492    +++++	, '	,		   0.09503  	0.11537	1 1	   	-         0.10473		-             8.69285

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# GCAL, Inc.

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD Target Version : 3.50 : ISTD Integrator Method file : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo

	1 5 1	20	50 [	100	200	10	1	C	oefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
	1     Level 8	 	'   	! ! 	· !		 				 
22 trans-1,2-Dichloroethene	7976 ₁ 2877 ₁	34787	96137  -	198781  	428700  	16818	  LINR	0.02150	0.36531		0.9997
20 Methyl Acetate	0.18210	0.18729	0.19358	0.18385	'	0.19440	        AVRG	1	0.19067		1 4.0409
32 Hexane	11193    3700			288600	,	23216	  LINR	0.01466	1		   0.9995
25 MTBE	18500    5070	1	211589  			38043					   0.9996
15 tert-Butyl Alcohol	338	2279  	ı	1			LINR	0.07609	0.02613		   0.9978
10 Acetonitrile	0.03002	0.03451	0.03595  	0.03711	0.03105	0.02689			0.03322		1 11.9100
28 Isopropyl Ether	0.79258    1.05658	0.80344	•		0.84086	0.80895	        AVRG	   	0.84540		   11.5061

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD Target Version : 3.50 Integrator Method file : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo

	1 5 1	20	50	100	200	10	1 1	C	coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
	1   Level 8			   	1	,	! ! ! !				1
			=======================================	'   ================							' -
27 Chloroprene	0.31740  0.39156	ı	0.37558	0.40068	1		AVRG	, l	0.36676		1 10.31359
26 1,1-Dichloroethane ++	11502    3501			262335    262335	'	23764		0.01045	i		l 0.99987
16 Acrylonitrile	   0.07367    0.06845	0.08097	0.07852	0.07593    0.07593	0.07785		  AVRG	 	0.07653		   5.68394
29 Vinyl Acetate	   0.29855    0.30915	0.31040	0.36573	0.35754    0.35754	0.33874	0.31717		! !	0.32818		7.92723
152 Ethyl Tert-butyl Ether	   +++++     +++++	 +++++   	+++++	+++++	+++++		  AVRG	; ;	0.000e+00		   0.000e+00
23 cis-1,2-Dichloroethene	8572    2828		96174	197947	1	17256	  LINR	0.01506			l   0.99986
38 2,2-Dichloropropane	   0.36358    0.51282					0.35544	, ,	   	0.40088		-      13.65316
·	 	 			 				-		-

Report Date: 19-Jan-2011 15:25 Page 6

#### GCAL, Inc.

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD Target Version : 3.50 Integrator Method file : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo

	5	20	50	100	200	10	1 1	C	Coefficients	. 1	%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
	1 1	I	 							1	1
	Level 8									l 	 
45 Cyclohexane	0.38330	0.40069	,	0.46458	. ,	0.39743					I
	0.54792						AVRG		0.44770	l 	12.96351
36 Bromochloromethane	0.13202	,	1	,	'			 			 1
·	0.18694				 		AVRG	·	0.14591	l !!	12.71579
37 Chloroform +	11589			261511						1	
	3434		1	!			LINR	0.00938		1	0.99983
46 Carbon Tetrachloride	0.29555	0.30694		0.33513	'						I
	0.42390				·		AVRG		0.33424		12.72028
53 Ethyl Acetate	29132	'	'	863012		54243				1	1
	8127				 		QUAD	0.37272			
35 Tetrahydrofuran	11051	55377		323623		21017	1 ,		 	 	I
	2955				 		LINR	0.20313	0.12474		0.99853
31 sec-butanol	++++	+++++	+++++	+++++	   ++++	+++++					
	+++++	1	1				AVRG	!	0.000e+00	,	0.000e+00
					 				- 		

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD
Target Version : 3.50
Integrator : HP RI
Method file : /var/ : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo

	5	20	50 J	100	200	10	1 1	(	Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
	   1     Level 8	   	 		 						
43 1,1,1-Trichloroethane	0.37634	0.38388	0.42014	0.41248		0.37687	I I		0.41361		11.35041
33 2-Butanone	3350    1300	15101	37983    37983	75062		7370	  LINR	-0.02223	0.13263		0.99979
44 1,1-Dichloropropene	8566    2755	35278			437528  	17000	  LINR	0.01267	 		0.99984
157 1,3-difluorobenzene	   +++++     +++++	++++	+++++   	++++	+++++	++++	  AVRG		   0.000e+00		0.000e+00
54 2,2,4 Trimethylpentane	0.73202		I I	0.79440		0.75954	  AVRG		0.78729		1 10.14641
47 Benzene	27348	113415	307679	628022	1 1	55442	  LINR	0.01039	1.14249		0.999901
24 Propionitrile	0.03168	0.04026	0.04300	0.04676	0.03775	0.03132	  AVRG		0.03865		14.63160
			 						-		

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 : 15-JAN-2011 13:06 End Cal Date

Quant Method : ISTD
Target Version : 3.50
Integrator : HP RT
Method file : /var/ : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo

	5	20	50 I	100	200	10	1 1	C	Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
	1   Level 8			 			1 1				1 1
									.======================================		
30 Methylacrylonitrile	0.15169	0.17150	0.16244	0.18794	0.16077	0.14452	1 1	I	. 1		i i
	0.19060		1	!			AVRG	!	0.16707		10.41125
42 1,2-Dichloroethane	0.35705		•	,	'						
	0.47536		1				AVRG		0.38071		11.12663
34 Isobutyl Alcohol	7461				'	1563	' '				
	+++++						LINR	0.49587	0.01398		0.998201
158 1,4-difluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++			1			AVRG		0.000e+001		0.000e+00
80 Total 1,2-Dichloroethene	16548	,	1	,	853358		1 1		- 		-
	5705		i				LINR	0.03659			0.999831
154 Tert-butyl formate		+++++	+++++	+++++	+++++	+++++					-
-	+++++	1	1	1	l i		AVRG		0.000e+00		0.000e+00
153 tert-amyl Methyl Ether		+++++	+++++	+++++	   ++++	+++++			-		-
	+++++		, 	İ	· '		AVRG		0.000e+00		0.000e+00
	-								-		-11

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD
Target Version : 3.50
Integrator : HP R
Method file : /var, : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo

	1 5 1	20	50	100	200	10	1 1	(	Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	1 1				. I		1 1				1 1
	Level 8										
155 Tert-amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	1		1		
	+++++						AVRG		0.000e+00		0.000e+00
61 Methyl Cyclohexane	9561										
	3471		 				LINR	0.02035	0.45805		0.99969  
57 Trichloroethene	67341				1						
	2224		 				LINR	0.01519	0.29610		0.99987
162 Heptane	+++++	+++++	+++++	+++++	+++++	+++++			 		
	+++++		 				AVRG		0.000e+00		0.000e+00
159 1,2-difluorobenzene	+++++	++++	+++++	+++++	+++++	+++++	l 1		1		1
	+++++						AVRG		0.000e+00		0.000e+00
161 Total Difluorobenzene	+++++	+++++	+++++	++++	+++++	++++		· .	 		
	+++++		 				AVRG		0.000e+00		0.000e+00
40 n-Butanol	348	3105				873					
	+++++						LINR	0.13029	0.049991		0.99643
			 								-

Report Date: 19-Jan-2011 15:25 Page 10

# GCAL, Inc.

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD Target Version : 3.50 Integrator Method file : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo

,	5	20	50	100	200	10		(	Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
	1 1				 						1 1
	Level 8										
55 Dibromomethane	0.15466	0.16232		0.16432		0.16269					
	0.20949						AVRG		0.16997		10.60351
48 2-3 Dichloro-1-Proprene	9496	•		208968				I			1 1
	2700						LINR		•		0.999291
56 1,2-Dichloropropane +	6860	28447	76550	156912	332715	13469	1 1		I I		1 1
	1939  						LINR				0.99995
58 Bromodichloromethane	0.32872		0.37088	0.37002	0.37805				i i		1 1
	0.45045				 		AVRG		0.37103    -		10.48745
52 Methyl methacrylate	1 46281		655091	150163	2728691			1	i i		1 1
	1415		I				LINR				0.99533
51 1,4- Dioxane	721	5216	15165	32502	. +++++	1753					1 1
	76.00000						LINR				0.998891
160 Methyldisulfide		+++++	+++++	+++++	. +++++	++++			I I		i
	+++++						AVRG		0.000e+00    -		0.000e+00
					1l	E-1	.II				

Report Date: 19-Jan-2011 15:25 Page 11

# GCAL, Inc.

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD Target Version : 3.50 : ISTD Integrator Method file : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo

	5	20	50	100	200	10	1 1	Co	pefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
	1				 		1 1				1
	Level 8										
60 1-Bromo-2-chloroethane	9541			23929		2226			l		
	119						LINR	0.01353	0.04415		0.99971
62 2-Chloroethyl vinyl ether	330			15622		1090		1	-1-		
	+++++		 				LINR	0.13305	0.03344		0.99520
63 cis-1,3-Dichloropropene	0.39098		0.46031	0.45456	0.46134			i			i
	0.56538		 				AVRG	  -	0.44948		13.09657
70 Toluene +	29535	119684		680745		60101	1 1	i	i		i i
	9950		 					-0.01810			0.99964
49 2-Nitropropane	0.06362		0.073901	0.09117	0.077691			. 1	i		i
	0.07807		 				AVRG	•	0.07415		13.28306
78 Tetrachloroethene	0.523241		0.58549	0.55629	0.53909			i I	i		i
	0.73893						AVRG	·	0.57317		13.30029
65 4-methyl-2-pentanone	5922		75582	152031	324557	13332	1 1		i		1
	1445				l		LINR				0.9998
	_		· · · · · · · · · · · · · · · · · · ·				1 1				

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD
Target Version : 3.50
Integrator : HP R : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo

	1 5 1	20	50 [	100	200	10	1 1	С	oefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	1 1						1 I				1
	Level 8		1				1 1				1
66 trans-1,3-Dichloropropene	0.36235	•		0.42249				 			
	0.52591		1				AVRG		0.41818		13.0825
67 1,1,2-Trichloroethane	0.62611	'	1	0.60513	'						
	0.85682						AVRG	l l	0.65949		13.5488
64 Ethyl Methacrylate	4177	'	628461	145078	1			1			i
	1017				 		LINR	0.03395	0.69987		0.9965
72 Dibromochloromethane	0.63559	0.68591	0.71506	0.68645	'		, ,	1			İ
	0.90534				 		AVRG	l 	0.71428		12.2447
71 1,3-Dichloropropane	1.07479	1.08744	1.13386	1.06172	1.04442	1.10017	1 1	i	İ		i
	1.52055		, l I		 		AVRG	 	1.14614		14.6194
59 1-Nitropropane	784	4079	10754	27917	48567	1494		i	ı		i
	58.000001				 		LINR	0.02796	0.04711		0.9910
74 1,2-Dibromoethane(EDB)	0.59617		0.65649	0.61513	0.61187	0.63175	1 1	1	1		Ì
	0.85828				 		AVRG	ا ۱ ــــــــــــــــــــــــــــــــــــ	0.65753		13.7738
							11				_[

Report Date: 19-Jan-2011 15:25

#### GCAL, Inc.

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD Target Version : 3.50
Integrator : HP RT
Method file : /var/ : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo

	1 5 1	20	50 [	100	200	10	1 1	C	Coefficients		%RSD
Compound	Level 1	Level 2	Level 3		Level 5	Level 6	Curve	b	m1	m2	or R^2
	1 1						1 1				1 . 1
	Level 8										
73 2-Hexanone	3625	•							 		 
	873						LINR				0.99937
87 1-3 Dichloropropene total	0.37667	'						1	İ		
	0.54564	,	I				AVRG		0.43383		13.08376
151 3,3 Dimethyl-1-butanol	+++++	+++++	+++++	+++++	'   +++++	+++++	1. 1	· 	. 1		1 1
	+++++				 		AVRG		0.000e+00		0.000e+00
86 1-Chlorohexane	7609	32328	96166	190186	430461	15939		i I	1		i i
	2758  				 		LINR	0.03823			0.99875  
85 Chlorobenzene ++	17751	75128	206145	420280	903947						i i
·	6025  				 		LINR	-0.01346			0.99972  
88 Ethylbenzene +	0.968761	0.98536	1.09078	1.03839	1.02889			·			i i
	1.35365						AVRG		1.06284		12.73030  
82 1,1,1,2-Tetrachloroethane	5985	24828	•			12246	1 1				1 1
	1822		 		 		LINR	-0.00970	0.62571		0.99974  
•	· _11				· 						· _11

Report Date: 19-Jan-2011 15:25 Page 14

#### GCAL, Inc.

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD Target Version : 3.50
Integrator : HP RT
Method file : /var/
Cal Date : 17-Ja : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo

	5	20	50	100	200	10	1 1	(	Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	ml	m2	or R^2
	1 1						1 1				ŧ [
	Level 8	1	l				1 1				1
69 3-ethyltoluene	· ======    +++++	+++++	=======    +++++	+++++	=======	+++++					
·	+++++				1 .		AVRG	1	0.000e+00		0.000e+0
89 p,m-Xylene	21806	95276	   277953	578442	' '						
	6849				 		LINR	0.01317	1.28708		0.9997
75 2-ethyltoluene	++++	+++++	   +++++	+++++	+++++	+++++	1				1
	+++++		 				AVRG		0.000e+00		0.000e+0
93 o-Xylene	9725	44453	129828	271667					1		1
	2914						LINR	0.01522	1.22119		0.9998
90 Bromoform ++	0.399991		0.49212	0.47137	0.48996				1		i
	0.48275		 				AVRG		0.46392		6.8784
91 Styrene	1.59569	1.84701	2.13433	2.09260	2.18495	1.74610	1 1	· 			1
	2.17360	'	 				AVRG		1.96775		12.0085
96 Isopropylbenzene	24426	110769	'		•	51923	i i				1
	7760		 		 		LINR	0.02370	3.18263		0.9997
	-		 		l		.				_

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD Target Version : 3.50 Integrator Method file : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo

	5 [	20	50	100	200	10	1 1	Co	efficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
	1   1	   	    	 	 						!   
98 Bromobenzene	10789    3496	45976  		274449	619321  	22113	  LINR	-0.00051	 1.25746		0.9999:
100 n-Propylbenzene	29253    9955	126463	•	822094  	1824439    1	60888	      LINR	İ	3.72447		0.9997
120 TOTAL XYLENE	31531    31531    9763	139729	•	850109  	'	67283	        LINR	-0.04415	1.25675  		0.9994
92 1,1,2,2-Tetrachloroethane++	7115		84158	173184	374076  	15403	      LINR		0.76044		0.9993
101 2-Chlorotoluene	18026    5967		226790    1	480444	1070747    1070747	37086	        LINR	ĺ	2.18072		   0.9998
94 1,2,3-Trichloropropane	0.70399	i	0.72851	0.67516  	0.66804    0.66804	0.73853	    AVRG		0.74027	-	12.8170
104 1,3,5-Trimethylbenzene	   20271    6548	90976	'	576030    576030	,	42160	' '	0.008891	2.64191		   0.9998

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD Target Version : 3.50
Integrator : HP R'
Method file : /var, : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo

	5 1	20	50	100	200	10	1 1	C	oefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
	1 1						1 1				1
	Level 8	, , , , , , , , , , , , , , , , , , ,									1
76 Cyclohexanone	20261	10959	•	85067		3366					1
	398						LINR	0.18691	0.22488		0.99164
95 trans-1,4-Dichloro-2-Butene	1824	'		49668							
	426				 		LINR	-0.00454	0.22792		0.99970
102 4-Chlorotoluene	18631	,	•	512022			,	1			1
	6334				 		LINR	•	2.32119		0.99978
105 tert-butylbenzene	10789	47197	144525	309726	697127	22519	i i	. 1			l
	3598				 		LINR	0.01489	1.42226		0.99984
84 Pentachloroethane	0.42332	0.43643	0.43648	0.44831	0.46707			i	1		1
	0.51764		1		 		AVRG		0.44908		7.72334
106 1,2,4-Trimethylbenzene	20494	93813	279347	598405	1344074	43496	i i	i I	İ		1
	6542				 		LINR	0.01254	2.74167		0.99988
3 2-methylnapthalene	+++++	+++++	+++++	+++++	' +++++	+++++	1 1	' !	1		i I
	+++++						AVRG		0.000e+00		0.000e+00
			1		1		1 1		1		1

Report Date: 19-Jan-2011 15:25 Page 17

# GCAL, Inc.

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD Target Version : 3.50
Integrator : HP RT
Method file : /var/ : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo

	5	20	50	100	200	10	1 1	Co	efficients		%RSD
Compound	Level 1	Level 2	Level 3		Level 5	Level 6	Curve	b	m1	m2	or R^2
	1 1 1										1
	Level 8				1		i I				
107 sec-Butylbenzene	24040		334927	710294				I	1		-
	80281  I		 	ا اا			LINR	0.01266	3.24423		0.99976
112 Dicyclopentadiene	2.64696	•	2.79119	3.17904							1
	3.53678						AVRG	  -	3.01207		10.97197
111 p-Isopropyltoluene	18977	87368	273105	582745	1313306	40564	1	i	i, i		1
	6334  			ا اا			LINR	0.01930	2.68294		0.99979
108 1,3-Dichlorobenzene	12514	53226	154679	330522	751785			i	1		1
	4258  		 	! 			LINR   		1.52795		0.99988
110 1,4-Dichlorobenzene	13300	55483	162609	342276	776923			ĺ	İ		i
	4928  		 	ا ا			LINR   	0.00382	1.57776		0.99985
114 n-Butylbenzene	16516		247422	531501	1182211						1
	5995  						LINR   	0.02045	2.42246		0.99966
13 1,2-Dichlorobenzene	120691		147983	313706	711889			0.004631	1 44505:		1
	3893  			ا ا	 		LINR   	0.00490	1.44596   -		0.99990
	11	1		[	·	***************************************	II.				_1

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD
Target Version : 3.50
Integrator : HP R
Method file : /var, : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo

Compound	5     Level 1	20   Level 2	50   Level 3	100   Level 4	200     Level 5	10 Level 6	  Curve	b	Coefficients ml	m2	%RSD   or R^2
	   1     Level 8		   	·	<b></b>   					 	 
81 1-3 Diethylbenzene	+++++	+++++	+++++	+++++	=======  	+++++	  AVRG	•		!	0.000e+00
79 1-4 Diethylbenzene	+++++     +++++	+++++	+++++	+++++		++++	  AVRG			 	0.000e+00
77 1-2 Diethylbenzene	+++++	+++++	+++++	+++++	   +++++   	+++++	  AVRG		   0.000e+00	1	0.000e+00
115 1,2-Dibromo-3-Chloropropane	1159		16676	34306	   76582  	2924	  LINR	-0.00993		!	0.99971
99 Benzal Chloride	717    99.00000	·	16268	46630			I I I	0.20510		   2.70903	0.99778
118 Hexachlorobutadiene	2264	1	i			4502		-0.00661			0.99972
116 1,2,4-Trichlorobenzene	   5809    1806	,	•		360293  	11999	  LINR	0.00376	           0.73548		     0.99976

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD Target Version : 3.50
Integrator : HP R
Method file : /var : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo

			***************************************								
	5	20	50	100	200	10	1 1	C	Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
							1 1				1
	Level 8		1		l 1		1 · 1				i i
					======		=====				
117 Naphthalene	11430	595071	181183	391784	867431	25361	1 1		1.		Ĺ
	2219	· · ·	ł		1		LINR	0.02048	1.77932		0.99977
110 1 0 0 7 1 1 1			'						-		
119 1,2,3-Trichlorobenzene	4641    1508	21199	59844	124973	274027		  LINR	-0.014151	0.558081		0.99967
121 Total Diethylbenzene	+++++	++++	+++++	+++++	+++++	+++++	1 1		i		İ
	+++++	1	1				AVRG	İ	0.000e+00		0.000e+00
39 Dibromofluoromethane	 0.242991	0.23833	0.239151	0.24011	0.24595	0.23817	====== 				
	0.242381				,		AVRG		0.24101		1.19430
							11				-
41 1,2-Dichloroethane-d4	0.14839	0.14889	0.14773	0.14792	0.14921			1	1		1
	0.15059						AVRG		0.14872		0.65456
68 Toluene-d8	2.505761	'		2.40998					-		
	2.552491				1		AVRG		2.47603		3.01994
											-
97 Bromofluorobenzene	0.71398	0.71888	0.73743	0.72751	0.72272			I	l l		1
•	0.68270	ļ	[ · .		l l		AVRG	!	0.71853		2.42608
									-		-
	I		·		I		I		·		_1

#### INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2011 11:09 End Cal Date : 15-JAN-2011 13:06

Quant Method : ISTD Target Version : 3.50 Intégrator : HP RTE

: /var/chem/msv11.i/2110115.s.b/8260bw11.m : 17-Jan-2011 11:24 rjo Method file

Cal Date

|Average %RSD Results. |Calculated Average %RSD = 10.48843 |Maximun Average %RSD = 15.00000 |* Passed Average %RSD Test.

1	Curve	I	Formula	١	Units	١
1:		: :		=   :		=
1	Averaged	1	Amt = Rsp/m1	1	Response	١
I	Linear	1	Amt = b + Rsp/m1	١	Response	١
1	Quad	١	$Amt = b + m1*Rsp + m2*Rsp^2$	1	Response	١
١.		1.		_1.		_1

Data File: /var/chem/msv11.i/2110114.s.b/a8922.d

Report Date: 17-Jan-2011 07:03

GCAL, Inc.

#### RECOVERY REPORT

Client Name: Client SDG: 2110114.s

Sample Matrix: LIQUID Fraction: VOA

Lab Smp Id: 1600 Client Smp ID: V11ICV

Level: LOW Operator: RJU Data Type: MS DATA SampleType: LCS Quant Type: ISTD SpikeList File: App9.spk

Sublist File: APP9\$.sub
Method File: /var/chem/msv11.i/2110114.s.b/8260bw11.m

Misc Info: MSV~20844~*1*RJU

1		CONC	CONC	%
SPIKE	COMPOUND	ADDED	RECOVERED	RECOVERED  LIMITS
1		ug/L	ug/L	
4	1-3 Butadiene	50.0	38.9	77.86   60-140
12	Ethyl Ether	250	221	88.22   60-140
17	Allyl chloride	50.0	45.0	90.03   60-140
10	Acetonitrile	250	210	83.99   60-140
15	tert-Butyl Alcohol	50.0	32.4	64.73   60-140
28	Isopropyl Ether	50.0	44.4	88.78   60-140
31	sec-butanol	50.0	0.00	I
27	Chloroprene	50.0	45.5	91.01   60-140
53	Ethyl Acetate	250	162	64.93   60-140
24	Propionitrile	250	212	84.71   60-140
35	Tetrahydrofuran	250	164	65.44   60-140
30	Methylacrylonitrile	50.0	42.3	84.59   60-140
34	Isobutyl Alcohol	250	155	61.86   60-140
54	2,2,4 Trimethylpentane	50.0	41.0	82.07   60-140
40	n-Butanol	50.0	31.2	62.40   60-140
48	2-3 Dichloro-1-Proprene	50.0	47.3	94.52   60-140
52	Methyl methacrylate	50.0	40.1	80.14   60-140
51	1,4- Dioxane	1250	843	67.48   60-140
1 49	2-Nitropropane	50.0	40.6	81.12   60-140
64	Ethyl Methacrylate	50.0	41.9	83.80   60-140
59	1-Nitropropane	50.0	39.7	79.46   60-140
76	Cyclohexanone	100	61.1	61.07   60-140
84	Pentachloroethane	50.0	46.8	93.54   60-140
112	Dicyclopentadiene	50.0	45.6	91.20   60-140
	Benzal Chloride	100	77.9	77.91   60-140
I		1	1	1

	CONC ADDED ug/L	CONC	%
SURROGATE COMPOUND		RECOVERED	RECOVERED  LIMITS
		ug/L	
\$ 39 Dibromofluoromethane	   50.0	   49.9	   99.72  77-127  

Data File: /var/chem/msv11.i/2110115.s.b/a8944.d

Report Date: 16-Jan-2011 09:52

GCAL, Inc.

#### RECOVERY REPORT

Client Name: Client SDG: 2110115.s

Sample Matrix: LIQUID Fraction: VOA

Lab Smp Id: 1600 Client Smp ID: V11ICV

Level: LOW Operator: RJU
Data Type: MS DATA SampleType: LCS
SpikeList File: ICV.spk Quant Type: ISTD

Sublist File: 8260b.sub

Method File: /var/chem/msv11.i/2110115.s.b/8260bw11.m

Misc Info: MSV~20858~*1*RJU

		CONC	CONC	8	1
SPIKE	COMPOUND	ADDED	RECOVERED	RECOVERED	LIMITS
		ug/L	ug/L	1	
   1	Dichlorodifluoromethane	50.0	58.7	117.38	60-140
2	Chloromethane ++	50.0	53.6	107.22	70-130
3	Vinyl Chloride +	50.0	46.8	93.53	170-130
5	Bromomethane	50.0	51.4	102.78	160-140
6	Chloroethane	50.0	48.9	97.84	70-130
9	Trichlorofluoromethane	50.0	51.4	102.90	70-130
19	1,1,2Trichlotrifluoroethane	50.0	48.6	97.11	70-130
8	Acrolein	250	215	85.97	160-140
13	1,1-Dichloroethene +	50.0	48.4	96.80	70-130
11	Acetone	50.0	69.4	138.85	160-140
14	Methyl Iodide	50.0	54.9	109.73	70-130
21	Carbon Disulfide	50.0	52.4	104.88	70-130
18	Methylene Chloride	50.0	48.2	96.32	70-130
25	MTBE	50.0	51.4	102.89	170-130
22	trans-1,2-Dichloroethene	50.0	1 49.5	99.09	70-130
16	Acrylonitrile	250	264	105.70	160-140
26	1,1-Dichloroethane ++	50.0	50.0	100.02	70-130
29	Vinyl Acetate	50.0	52.8	105.70	70-130
38	2,2-Dichloropropane	50.0	49.4	98.83	70-130
23	cis-1,2-Dichloroethene	50.0	50.3	100.52	70-130
33	2-Butanone	50.0	60.4	120.80	160-140
36	Bromochloromethane	50.0	49.8	99.63	170-130
37	Chloroform +	50.0	49.8	99.60	70-130
45	Cyclohexane	50.0	48.5	96.93	170-130
43	1,1,1-Trichloroethane	50.0	48.1	96.14	70-130
46	Carbon Tetrachloride	50.0	48.8	97.68	70-130
44	1,1-Dichloropropene	50.0	48.8	97.61	70-130
47	Benzene	50.0	49.5	98.99	70-130
42	1,2-Dichloroethane	50.0	50.5	100.96	70-130
57	Trichloroethene	50.0	48.8	97.63	70-130
61	Methyl Cyclohexane	50.0	50.6	101.21	70-130
56	1,2-Dichloropropane +	50.0	50.4	100.78	70-130
55	Dibromomethane	50.0	50.8	101.55	70-130
l					

Data File: /var/chem/msv11.i/2110115.s.b/a8944.d Report Date: 16-Jan-2011 09:52

		CONC	CONC	8	1
SPIKE	COMPOUND	ADDED	RECOVERED	RECOVERED	LIMIT
		ug/L	ug/L		
58	Bromodichloromethane	50.0	49.7	99.38	  70-13
62	2-Chloroethyl vinyl ether	50.0	48.1	96.20	160-14
	cis-1,3-Dichloropropene	50.0	49.7	99.46	70-13
	4-methyl-2-pentanone	50.0	48.9	97.80	160-14
	Toluene +	50.0	50.2	100.32	70-13
66	trans-1,3-Dichloropropene	50.0	51.9	103.74	70-13
	1,1,2-Trichloroethane	50.0	47.9	95.76	70-13
	Tetrachloroethene	50.0	48.3	96.52	170-13
	1,3-Dichloropropane	50.0	48.8	97.70	170-13
	2-Hexanone	50.0	56.2	112.45	160-14
72	Dibromochloromethane	50.0	48.2	96.38	
74	1,2-Dibromoethane(EDB)	50.0 I	48.2	96.33	170-13
	Chlorobenzene ++	50.0	50.8	101.52	
	Ethylbenzene +	50.0 j	48.2	96.33	· · ·
	1,1,1,2-Tetrachloroethane	50.0	50.8	101.60	
	p,m-Xylene	100	98.5	98.54	
	o-Xylene	50.0	50.0		70-13
	Styrene	50.0	51.8		70-13
	Bromoform ++	50.0	51.3	102.66	
	Isopropylbenzene	50.0	48.4	96.78	
	Bromobenzene	50.0	50.6		170-13
	1,1,2,2-Tetrachloroethane++	50.0	51.4	102.74	
	n-Propylbenzene	50.0	50.3	100.67	
	1,2,3-Trichloropropane	50.0	47.3	94.62	•
	trans-1,4-Dichloro-2-Butene	50.0	53.2		160-1
	2-Chlorotoluene	50.0	50.3		70-13
	1,3,5-Trimethylbenzene	50.0	50.3	100.66	
	4-Chlorotoluene	50.0 1	50.0	100.09	-
	tert-butylbenzene	50.0 1	49.5	98.96	
	1,2,4-Trimethylbenzene	50.0	51.0		70-13
	sec-Butylbenzene	50.0	50.3		70-13
	1,3-Dichlorobenzene	50.0	50.1	100.12	•
	p-Isopropyltoluene	50.0 j	52.4	104.81	
	1,4-Dichlorobenzene	50.0 j			
	n-Butylbenzene	50.0 j			-
	1,2-Dichlorobenzene	50.0			•
	1,2-Dibromo-3-Chloropropane	50.0			
	1,2,4-Trichlorobenzene	50.0			
	Hexachlorobutadiene	50.0			
	Naphthalene	50.0			
	1,2,3-Trichlorobenzene	50.0	55.0	110.09	

\$ 39 Dibromofluoromethane		50.0		50.4		100.89	77-127
			_		_ _		_
	1	ug/L	1.	ug/L	1		1 . 1
SURROGATE COMPOUND	1	ADDED	1	RECOVERED	1	RECOVERED	LIMITS
I		CONC	-	CONC	l	8	1 1

Data File: /var/chem/msv11.i/2110116.s.b/a8959.d

Report Date: 16-Jan-2011 09:58

GCAL, Inc.

#### CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv11.i Injection Date: 16-JAN-2011 08:59

Init. Cal. Date(s): 14-JAN-2011 15-JAN-2011 Lab File ID: a8959.d

Analysis Type: WATER Lab Sample ID: 1400 Init. Cal. Times: 11:09 13:06

Quant Type: ISTD Method: /var/chem/msv11.i/2110116.s.b/8260bw11.m

	I	1	1	CCAL	MIN	1	MAX	1
COMPOUND	•	/ AMOUNT	RF50	RRF50	RRF	•		CURVE TYPE
4 1-3 Butadiene	====	55.51012	50.000001	0.30280	•	•	40.00000	'
12 Ethyl Ether	1	0.23958	0.23233	0.23233	10.010	-3.02595	40.00000	Averaged
17 Allyl chloride	I	0.29040	0.29125	0.29125	10.010	0.29431	40.00000	Averaged
15 tert-Butyl Alcohol	1	45.83782	50.00000	0.02196	10.010	-8.32436	40.00000	Linear
10 Acetonitrile	I	0.03322	0.03320	0.03320	10.010	-0.06665	40.00000	Averaged
28 Isopropyl Ether	l	0.84540	0.83323	0.83323	10.010	-1.43920	40.00000	Averaged
27 Chloroprene	1	0.36676	0.38048	0.38048	10.010	3.74008	40.00000	Averaged
31 sec-butanol	l	++++	0.21068	0.21068	10.010	++++	40.00000	Averaged <
53 Ethyl Acetate	1	2061	250	0.28241	10.010	-17.66793	40.00000	Quadratic
35 Tetrahydrofuran	ı	225	250	0.10729	10.010	-9.92414	40.00000	Linear
54 2,2,4 Trimethylpentane	1	0.78729	0.78622	0.78622	0.010	-0.13576	40.00000	Averaged
24 Propionitrile	I	0.03865	0.039681	0.03968	10.010	2.65152	40.00000	Averaged
30 Methylacrylonitrile	1	0.16707	0.16597	0.16597	10.010	-0.65440	40.00000	Averaged
34 Isobutyl Alcohol °	1	222	250	0.01115	10.010	-11.31290	40.00000	Linear
40 n-Butanol	1	44.29366	50.00000	0.03777	0.010	-11.41268	40.00000	Linear
48 2-3 Dichloro-1-Proprene	l	50.16647	50.000001	0.38974	10.010	0.332941	30.00000	Linear
52 Methyl methacrylate	1	48.45581	50.00000	0.25019	0.010	-3.08838	40.000001	Linear
51 1,4- Dioxane	1	1146	1250	0.00219	0.010	-8.30536	40.00000	Linear <
49 2-Nitropropane	l	0.07415	0.07719	0.07719	10.010	4.09757	40.00000	Averaged
64 Ethyl Methacrylate	i	47.25174	50.00000	0.63764	10.010	-5.49651	40.000001	Linear
59 1-Nitropropane	I	49.398891	50.00000	0.04523	0.010	-1.20222	40.000001	Linear
76 Cyclohexanone	I	79.45419	100	0.15766	10.010	-20.54581	40.000001	Linear
34 Pentachloroethane	I	0.44908	0.43308	0.43308	0.010	-3.56159	40.000001	Averaged
112 Dicyclopentadiene	1	3.01207	3.04347	3.04347	0.010	1.04233	40.000001	Averaged
99 Benzal Chloride	1	101	100	0.10491	0.010	1.13409	40.000001	Quadratic
	l	1	1		l	11	1	1

Data File: /var/chem/msv11.i/2110116.s.b/a8960.d

Report Date: 16-Jan-2011 09:58

GCAL, Inc.

#### CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv11.i Injection Date: 16-JAN-2011 09:23

Lab File ID: a8960.d Init. Cal. Date(s): 14-JAN-2011 15-JAN-2011

Analysis Type: WATER Init. Cal. Times: 11:09 13:06

Lab Sample ID: 1400 Quant Type: ISTD Method: /var/chem/msv11.i/2110116.s.b/8260bw11.m

	1	1	. 1		MIN	•	I MAX	1
COMPOUND		/ AMOUNT	RF50				%D / %DRIFT 	•
1 Dichlorodifluoromethane		44.13244	50.000001	0.23942		•	•	•
2 Chloromethane ++	1	44.53628	50.00000	0.24629	0.100	-10.92744	30.00000	Linear
3 Vinyl Chloride +	1	0.39064	0.35754	0.35754	0.010	-8.47177	20.00000	Averaged
5 Bromomethane	١	45.44299	50.00000	0.23083	0.010	-9.11402	40.00000	Linear
6 Chloroethane	1	0.19846	0.18568	0.18568	0.010	-6.43782	30.00000	Averaged
9 Trichlorofluoromethane	1	46.31518	50.00000	0.35428	0.010	-7.36965	30.00000	Linear
13 1,1-Dichloroethene +	1	46.42956	50.00000	0.21643	0.010	-7.14088	20.00000	Linear
21 Carbon Disulfide	1	45.30857	50.00000	0.63087	0.010	-9.38285	30.00000	Linear
19 1,1,2Trichlotrifluoroethane	1	47.29173	50.00000	0.22626	0.010	-5.41653	30.00000	Linear
14 Methyl Iodide	ı	0.30814	0.28971	0.28971	0.010	-5.98149	30.0000	Averaged
8 Acrolein	1	0.01283	0.01594	0.01594	0.010	24.22432	40.00000	Averaged
18 Methylene Chloride	1	0.35966	0.31829	0.31829	0.010	-11.50132	30.00000	Averaged
11 Acetone	1	0.10473	0.11918	0.11918	0.010	13.79150	40.00000	Averaged
22 trans-1,2-Dichloroethene	. 1	45.84145	50.00000	0.32707	0.010	-8.31710	30.00000	Linear
20 Methyl Acetate	1	0.19067	0.19657	0.19657	0.010	3.09376	30.00000	Averaged
32 Hexane	. 1	48.04499	50.000001	0.49058	0.010	-3.91003	30.00000	Linear
25 MTBE	1	47.41446	50.000001	0.74072	0.010	-5.17108	30.00000	Linear
26 1,1-Dichloroethane ++	ı	47.23153	50.00000	0.44742	0.100	-5.53693	30.00000	Linear
16 Acrylonitrile	1	0.07653	0.07889	0.07889	0.010	3.08244	40.00000	Averaged
29 Vinyl Acetate	1	0.32818	0.35357	0.35357	0.010	7.73441	40.00000	Averaged
23 cis-1,2-Dichloroethene	1	46.50745	50.00000	0.33089	0.010	-6.98509	30.00000	Linear
38 2,2-Dichloropropane	1	0.40088	0.37956	0.37956	0.010	-5.31845	30.00000	Averaged
36 Bromochloromethane	1	0.14591	0.13394	0.13394	0.010	-8.20310	30.00000	Averaged
45 Cyclohexane	1	0.44770	0.43342	0.43342	0.010	-3.19049	30.00000	Averaged
37 Chloroform +	1	47.32555	50.000001	0.44847	0.010	-5.34891	20.00000	Linear
46 Carbon Tetrachloride	1	0.33424	0.31463	0.31463	0.010	-5.86808	30.00000	Averaged
\$ 39 Dibromofluoromethane	1	0.24071	0.23985	0.23985	0.010	-0.35640	30.00000	Averaged
43 1,1,1-Trichloroethane	1	0.41361	0.38300	0.38300	0.010	-7.39958	30.00000	Averaged
33 2-Butanone	1	55.97830	50.00000	0.15144	0.010	11.95661	40.00000	Linear
44 1,1-Dichloropropene	1	46.94601	50.000001	0.34658	0.010	-6.10798	30.00000	Linear
47 Benzene	1	46.65854	50.000001	1.05427	0.010	-6.68292	30.00000	Linear
\$ 41 1,2-Dichloroethane-d4	1	0.15419	0.14776	0.14776	0.010	-4.16793	30.00000	Averaged
42 1,2-Dichloroethane	Ī	0.38071	0.35438	0.35438	0.010	-6.91701	30.00000	
61 Methyl Cyclohexane	1	47.33421	50.000001	0.42431	0.010	-5.33158	30.00000	-
57 Trichloroethene	1	45.65246	50.000001	0.26586	0.0101	-8.69509	30.00000	Linear
	1	1	· 1				1	1 .

Data File: /var/chem/msv11.i/2110116.s.b/a8960.d

Report Date: 16-Jan-2011 09:58

### GCAL, Inc.

#### CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv11.i Injection Date: 16-JAN-2011 09:23

Lab File ID: a8960.d Analysis Type: WATER 

Lab Sample ID: 1400 Quant Type: ISTD Method: /var/chem/msv11.i/2110116.s.b/8260bw11.m

1	1		CCAL   MIN	1	MAX	
COMPOUND	RRF / AMOUNT	RF50		D / %DRIFT %D	·	
55 Dibromomethane	0.16997	0.15794	0.15794 0.010	-7.07593	30.00000	
56 1,2-Dichloropropane +	46.98319	50.000001	0.26391 0.010	-6.03361	20.00000	Linear
58 Bromodichloromethane	0.37103	0.35145	0.35145 0.010	-5.27794	30.00000	Averaged
M 80 Total 1,2-Dichloroethene	92.34890	100	0.32898 0.010	-7.65110	30.00000	Linear
60 1-Bromo-2-chloroethane	47.66821	50.00000	0.04150 0.001	-4.66357	30.00000	Linear
62 2-Chloroethyl vinyl ether	42.17605	50.00000	0.02376 0.010	-15.64791	40.00000	Linear
63 cis-1,3-Dichloropropene	0.44948	0.43032	0.43032 0.010	-4.26415	30.00000	Averaged
\$ 68 Toluene-d8	2.54436	2.46702	2.46702 0.010	-3.03987	30.00000	Averaged
70 Toluene +	48.40308	50.00000	2.91952 0.010	-3.19385	20.00000	Linear
65 4-methyl-2-pentanone	52.85553	50.000001	0.28930 0.010	5.71105	40.00000	Linear
78 Tetrachloroethene	0.57317	0.53954	0.53954 0.010	-5.86643	30.00000	Averaged
66 trans-1,3-Dichloropropene	0.41818	0.40342	0.40342 0.010	-3.53014	30.00000	Averaged
67 1,1,2-Trichloroethane	0.659491	0.61840	0.61840 0.010	-6.23166	30.00000	Averaged
72 Dibromochloromethane	0.71428	0.69628	0.69628 0.010	-2.52018	30.00000	Averaged
71 1,3-Dichloropropane	1.14614	1.07263	1.07263 0.010	-6.41324	30.00000	Averaged
74 1,2-Dibromoethane(EDB)	0.65753	0.61516	0.61516 0.010	-6.44369	30.00000	Averaged
73 2-Hexanone	60.53416	50.000001	0.56685 0.010	21.06833	40.00000	Linear
86 1-Chlorohexane	45.27241	50.000001	0.31722 0.010	-9.45518	30.00000	Linear
85 Chlorobenzene ++	48.78353	50.000001	1.82982 0.300	-2.43295	30.00000	Linear
88 Ethylbenzene +	1.06284	1.00941	1.00941 0.010	-5.02668	20.00000	Averaged
82 1,1,1,2-Tetrachloroethane	48.92515	50.000001	0.61833 0.010	-2.14970	30.00000	Linear
89 p,m-Xylene	95.80231	100	1.22458 0.010	-4.19769	30.00000	Linear
M 87 1-3 Dichloropropene total	0.433831	0.41687	0.41687 0.010	-3.91039	30.00000	Averaged
93 o-Xylene	47.52789	50.00000	1.14222 0.010	-4.94422	30.000001	Linear
91 Styrene	1.96775	1.97896	1.97896 0.010	0.56943	30.000001	Averaged
90 Bromoform ++	0.46392	0.49726	0.49726 0.100	7.18722	30.000001	Averaged
96 Isopropylbenzene	47.82468	50.000001	2.96875 0.010	-4.35064	30.000001	Linear
\$ 97 Bromofluorobenzene	0.70818	0.72451	0.72451 0.010	2.30475	30.00000	Averaged
98 Bromobenzene	48.58200	50.00000	1.22244 0.010	-2.83600	30.000001	Linear
100 n-Propylbenzene	48.50483	50.00000	3.59279 0.010	-2.99033	30.000001	Linear
92 1,1,2,2-Tetrachloroethane++	57.92332	50.00000	0.90674 0.300	15.84664	30.000001	Linear
101 2-Chlorotoluene	49.25300	50.00000	2.14676 0.010	-1.49399	30.000001	Linear
94 1,2,3-Trichloropropane	0.74027	0.74070	0.74070 0.010	0.05822	30.000001	Averaged
104 1,3,5-Trimethylbenzene	48.46722	50.00000	2.53744 0.010	-3.06556	30.000001	Linear
95 trans-1,4-Dichloro-2-Butene	55.23954	50.00000	0.25284 0.010	10.47909	40.000001	Linear
f	1 1	1	1 1	1		

Data File: /var/chem/msv11.i/2110116.s.b/a8960.d

Report Date: 16-Jan-2011 09:58

GCAL, Inc.

#### CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv11.i Injection Date: 16-JAN-2011 09:23

Lab File ID: a8960.d Analysis Type: WATER Init. Cal. Date(s): 14-JAN-2011 15-JAN-2011

Init. Cal. Times: 11:09 13:06

Lab Sample ID: 1400 Quant Type: ISTD Method: /var/chem/msv11.i/2110116.s.b/8260bw11.m

I	I	1	1	CCAL	MIN	ĺ	MAX	I
COMPOUND	RR	F / AMOUNT	RF50	RRF50	RRF  %D	/ %DRIFT %D	/ %DRIFT	CURVE TYPE
					===== ==	======= ==		
102 4-Chlorotoluene	1	48.76687	50.00000	2.26106	0.010	-2.46626	30.000001	Linear
105 tert-butylbenzene	1	47.81706	50.00000	1.33898	0.010	-4.36588	30,000001	Linear
106 1,2,4-Trimethylbenzene	- 1	48.30595	50.000001	2.61440	0.010	-3.38809	30.000001	Linear
107 sec-Butylbenzene	1	48.54669	50.00000	3.10886	0.010	-2.90663	30.000001	Linear
111 p-Isopropyltoluene	1	47.92295	50.00000	2.51972	0.010	-4.15409	30.000001	Linear
108 1,3-Dichlorobenzene	1	49.056961	50.00000	1.48427	0.010	-1.88608	30.000001	Linear
110 1,4-Dichlorobenzene	1	49.24021	50.00000	1.54775	0.010	-1.51958	30.000001	Linear
114 n-Butylbenzene	1	48.18701	50.00000	2.28508	0.010	-3.62598	30.000001	Linear
113 1,2-Dichlorobenzene	1	49.89651	50.00000	1.43588	0.010	-0.20698	30.000001	Linear
M 120 TOTAL XYLENE	1	143	150	1.25398	0.100	-4.44653	30.000001	Linear
115 1,2-Dibromo-3-Chloropropane	1	55.97041	50.00000	0.17577	0.010	11.94082	40.000001	Linear
118 Hexachlorobutadiene	1	47.84979	50.00000	0.24075	0.010	-4.30042	30.000001	Linear
116 1,2,4-Trichlorobenzene	1	50.18815	50.00000	0.73548	0.010	0.37631	30.000001	Linear
117 Naphthalene	1:	51.68520	50.00000	1.80285	0.010	3.37041	30.000001	Linear
119 1,2,3-Trichlorobenzene	1	52.54682	50.00000	0.59440	0.010	5.09365	30.00000	Linear
	1	1	1	1	1	i	ı	1

Report Date: 19-Jan-2011 15:36

#### GCAL, Inc.

#### INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14 End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD Target Version : 3.50 Integrator : HP RTE

Method file : /var/chem/msv5.i/2110107p.s.b/8260Bw5.m

Cal Date : 12-Jan-2011 10:50 rjo

#### Calibration File Names:

Level 1: /var/chem/msv5.i/2110107p.s.b/k9759.d Level 2: /var/chem/msv5.i/2110107p.s.b/k9761.d Level 3: /var/chem/msv5.i/2110107p.s.b/k9762.d Level 4: /var/chem/msv5.i/2110107p.s.b/k9763.d Level 5: /var/chem/msv5.i/2110107p.s.b/k9764.d Level 6: /var/chem/msv5.i/2110107p.s.b/k9760.d Level 7: /var/chem/msv5.i/2110107p.s.b/k9758.d

	5	20	50	100	200	10	1		Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	1   Level 7	 	 		 		   				 
1 Dichlorodifluoromethane	0.18213		0.18824  	0.18705	0.17952		  AVRG	 			9.19371
2 Chloromethane ++	0.16655		0.16114	0.16824	0.18074		AVRG		0.16561		8.63632
3 Vinyl Chloride +	0.18714		0.18677	0.19290	0.19694	0.16628	  AVRG		0.18701		6.43838
4 1-3 Butadiene	0.17650	0.16735	0.14966	0.16469	0.16592	0.19302	1		0.16952		8.49331
	.										

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# GCAL, Inc.

#### INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14
End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD Target Version : 3.50 Integrator Method file : HP RTE

: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo

5	20	50 I	100	200	10	1 1	C	Coefficients		%RSD
Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
1 1				 						1
,	·   ====================================			 						
0.082901		,					I	1		1
0.10832	 						 	0.09022		12.53249
10252		•		' '				. I		1
3016	1	1								0.99981
0.24515	,	'						 		
0.27355		1					!	0.23852		8.16413
+++++	+++++	+++++	+++++		+++++					
+++++	1	1						0.000e+00		0.000e+00
0.11804	0.10653	'	0.10317	0.10023				-		
0.09838	- [	1		<u> </u>			!	0.10374		6.68560
   +++++	+++++	+++++	+++++		+++++			-		
+++++	1	1		1				0.000e+00		0.000e+00
   0.12894		'						-		
0.15010	ı	1		ı .		AVRG		0.12971		8.20527
								-		-
	Level 1	Level 1   Level 2	Level 1   Level 2   Level 3	Level 1	Level 1	Level 1   Level 2   Level 3   Level 4   Level 5   Level 6	Level 1   Level 2   Level 3   Level 4   Level 5   Level 6   Curve	Level 1   Level 2   Level 3   Level 4   Level 5   Level 6   Curve   b	Level 1   Level 2   Level 3   Level 4   Level 5   Level 6   Curve   b   ml	Level 1   Level 2   Level 3   Level 4   Level 5   Level 6   Curve   b

Report Date: 19-Jan-2011 15:36

# GCAL, Inc.

#### INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14 End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD
Target Version : 3.50
Integrator : HP RT
Method file : /var/
Cal Date : 12-Ja : HP RTE

: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo

			F.A.	100							
Compound	5     Level 1	20   Level 2		100   Level 4	Level 5	10   Level 6	  Curve	b	pefficients ml	m2	%RSD   or R^2
	   1     Level 7	1		 	! !						
12 Carbon Disulfide	49367    14109	178308  	434865  	927322	1867243	85501		0.00780	0.44123		0.9998
13 1,1,2Trichlotrifluoroethane	0.13414  0.15712	0.14195	•	0.13780	0.13307	0.12795		 	0.13878		   6.7028
14 Methyl Iodide	7314  699	38493	125805  	298908	622846	   16380 		0.09612	0.14977		0.9984
15 Acrolein	0.01936			•	0.02068	0.01967			0.02003		1 2.7759
16 Allyl chloride	0.15946  0.18382	0.13949  	0.12684	0.13741	0.12923	0.13951 		·	0.14511		1 13.8203
17 Methylene Chloride	0.20386	0.20276	0.19357  	0.19148	0.18840	0.19041		1	0.20164		9.105
18 Acetone	0.14082			'	0.10353	0.13700			0.11954		1 13.4230
							 				_

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Report Date: 19-Jan-2011 15:36

# GCAL, Inc.

#### INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14
End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD Target Version : 3.50
Integrator : HP R.
Method file : /var, : HP RTE

: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo

	5	20	50 I	100	200	10			Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
l I	1 1						1 I				1 1
I	Level 7	1	1	İ	ı						I
=====================================	0.21121	0.20017	'								=====================================
<u> </u>	0.26763	1	1	1	 		AVRG		0.21225		12.05581
   20 Methyl Acetate	0.21196	0.22316	0.20887				. ,		- 		
 	+++++	I	1				AVRG		0.20687		7.09687
   21 Hexane	0.17270	0.14172	0.14745		'		' '				
l	+++++		1				AVRG		0.14719		10.54326
   22 MTBE	0.45339	1	0.45379	,	'		'				 
1	0.56013				 		AVRG		0.45777		10.31133
23 tert-Butyl Alcohol	0.02411	,			'				1		1
I	+++++		I				AVRG		0.02551		6.76259
24 Acetonitrile	0.03745	,	1		1						1
 	+++++		1		 		AVRG		0.03466		7.54418
25 Isopropyl Ether	0.58455	•			' '		'				
1	0.64632	!	1				AVRG		0.59830		4.24412
l	·   -				 		.				

# INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14 End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD Target Version : 3.50
Integrator : HP R'
Method file : /var, : HP RTE

: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo

	5	20	50	100	200	10	1 1		Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
	1     1     Level 7				1						
26 Chloroprene	0.22145	0.21048	0.20443	0.21511	0.21784	0.21774			0.22434		11.86180
27 1,1-Dichloroethane ++	0.28306	0.30126	•	0.29676	'	0.30360			1 0.302721		5.11496
29 Acrylonitrile	0.09118		'	0.09558	0.09674	0.08846			0.09330		
161 Ethyl-tert butyl ether	+++++	+++++	+++++	+++++	+++++	++++	AVRG		0.000e+00		
30 Vinyl Acetate	0.38294	Ī	0.37621	0.38821		0.35737	AVRG				4.71466
61 Total 1,2-Dichloroethene	0.22545	0.21939	0.22454	0.22547		0.21079			0.22881		9.16269
31 cis-1,2-Dichloroethene	0.23969		•		0.23957	0.23317			-         0.24537		6.78238
	-						-		-		

## INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14 End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD Target Version : 3.50
Integrator : HP R'
Method file : /var, : HP RTE

: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo

	5	20	50	100	200	10	1 1		Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	1 1		.	, ,			1				
	Level 7						i I				l 
32 2,2-Dichloropropane	0.27516		•	'					I I		1
	0.34282		I				AVRG		0.27468		11.2183
34 Cyclohexane	0.26245	,	'	. '					,,-		1
	0.307271	,			·		AVRG		0.26008		9.2293
33 Bromochloromethane	0.09191		0.08897	0.08393			'				
	0.09068			·			AVRG		0.08836		5.2031
35 Chloroform +	0.33850	1	0.31744	0.31477	'		. ,				1
	0.31917	 	 				AVRG		0.32069		2.5280
36 Carbon Tetrachloride	0.22895	0.21609	0.21750	0.21535	'		,		1 1		
	0.21832			I			AVRG		0.21459		5.3391
37 Ethyl Acetate	0.32030	0.32947	0.32449	0.32206			, ,				1
	0.25744						AVRG		0.31050		8.1390
38 Tetrahydrofuran	0.11891	3	0.11940	0.11860		1					1
	0.09710						AVRG		0.11417		7.4246
	 								-		

## INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14 End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD
Target Version : 3.50
Integrator : HP R
Method file : /var, : HP RTE

: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo

	l 5 l	20	50	100	200	10		(	Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	1     Level 7		    		 		! ! ! !				
40 1,1,1-Trichloroethane	0.27233	0.27410		4	'	0.25044	1 1		· .		i i
	0.31684		 		 		AVRG		0.27266    -		7.72783  
41 sec-Butanol	0.03000    ++++	0.02758	0.02893  	0.02830	I I		AVRG		   0.02999  		
159 Heptane	+++++     +++++	++++	+++++	++++	+++++     ++	++++	  AVRG		0.000e+00		
42 2-Butanone	0.18332						  AVRG		-     0.19467		             12.91101
43 1,1-Dichloropropene	0.24724    0.28184	0.24896	0.24894	0.25655		0.23567	  AVRG		-     0.25289		           5.62626
44 2-2-4 trimethyl Pentane	   57497    ++++		   404981  		1	131928		-0.06525	-         0.36160		           0.99869
162 tert-butyl formate	   +++++     +++++	+++++	   +++++   	+++++	   <u>+</u> ++++   	+++++	    AVRG	<del></del>     	- 		             0.000e+00
	₋		 		 				-   -		 

## INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14 End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD
Target Version : 3.50
Integrator : HP RT
Method file : /var/ : HP RTE

: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo

	5	20	50	100	200	10	1 1		Coefficients	. 1	%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	1 1						1 1			1	
	Level 7									 	
45 Benzene	0.69934	0.69182				0.71245			I I	ı 1	
	0.83929						AVRG		0.71305	ا اا	8.0081
46 Propionitrile	0.044681		•		'	0.04885	1 1		i	, i	
	0.03313				.   		AVRG		0.04516	ا اا	12.1373
47 Methacrylonitrile	0.19429	'	'	'		0.20179	,		i	i	
	0.27457				 		AVRG		0.20822		14.2478
163 tert amyl methyl ether	+++++	+++++	+++++	++++	. ++++	+++++	1 1		i	i	
	+++++				 		AVRG   		0.000e+00		0.000e+0
49 1,2-Dichloroethane	0.29557	0.27625	0.26784	0.26978	0.26215	0.24877			i	i	
	0.31566				 		AVRG		0.27657	ا اا	8.0738
50 Isobutyl Alcohol	0.01620	0.01472	0.01653	0.01620	0.01596	0.01673			i i	i I	
	++++   				 		AVRG		0.01606	ا اا	4.4106
164 tert amyl alcohol	+++++	+++++	+++++	+++++	·   +++++	+++++	1 1		i i	l	
	+++++						AVRG		0.000e+00	ا اا	0.000e+0
	1 1									!	

## INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14 End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD Target Version : 3.50 Intégrator : HP RTE

: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo Method file

	5	20	50	100	200	10	1 1		Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	1     Level 7	 			 		 				 
53 Methyl Cyclohexane	0.20932	0.21324	0.22447		0.22195	0.18591	  AVRG				9.56744
54 Trichloroethene	0.16533	0.16995	0.16489	0.16468	0.16815	0.15200	  AVRG				7.49901
55 1,3 Difluorobenzene	+++++     +++++	+++++	+++++	+++++	 	+++++	  AVRG				   0.000e+00
56 n-Butanol	0.01089    0.00885		1	0.01209		0.01116					   9.90218
57 Dibromomethane	0.13527		1		0.12767  	0.12863	        AVRG		0.13667		9.42274
58 2-3 Dichloro-1-Proprene	0.286231		0.28282	0.28773	1	0.28851	        AVRG		0.29171		2.57791
59 1,2-Dichloropropane +	0.17410    0.20105				0.18984	0.17653	, ,		         0.18521		4.91565

## INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14 End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD Target Version : 3.50 Integrator Method file : HP RTE

: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo

	l 5 l	20	50	100	200	10	1		Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
	1						1 1				1
	Level 7	!	4		1		1 1				1
60 Bromodichloromethane	0.25853			0.26972			, ,				-
	0.25081		1				AVRG		0.25927		2.6221
62 Methyl methacrylate	-     0.17686			0.18648	'				-		
	+++++	1	1		1		AVRG		0.18792		4.0412
68 1,4 Difluorobenzene	+++++	+++++	+++++	++++		+++++			-		
	+++++	!	1				AVRG		0.000e+00		0.000e+0
63 1,4- Dioxane	-     0.00232	,		0.00284	'	0.00289	'		-		
	+++++	1	1				AVRG		0.00273		8.0653
88 Methyl Disulfide	-	+++++	   +++++	++++		+++++			-		-
	+++++		1	:	i i		AVRG		0.000e+00		0.000e+0
64 1-Bromo-2-chloroethane	-     0.28497	0.29836		0.30052	'				-		-
	0.325591		i i				AVRG		0.29415		1 5.4656
65 2-Chloroethyl vinyl ether	0.15151		   0.16519		' '				-		-
• • •	0.14650		i I				AVRG		0.16621		9.3504
	-								-		-

#### INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14 End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD Target Version : 3.50 Integrator Method file : HP RTE

: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo

				400		4.0				,	
Compound	5     Level 1	20   Level 2	50   Level 3	100   Level 4	200   Level 5		Curve	b	Coefficients ml	m2	%RSD   or R^2
	   1     Level 7	   	   	   							   
66 cis-1,3-Dichloropropene	0.32915	0.32464	0.32403	0.34278	0.33732	0.30590	I I AVRG		0.32270		,   5.23186
69 Toluene +	1.62929	1.61655  	1.54359	1.64003	1.61117	1.49916	I I IAVRG		1.63499		   7.92603
M 6 1-3 Dichloropropene-Total	0.31828	0.32151	0.32659	0.33701	0.33431	0.30195	I I IAVRG I		0.32194		3.7597
70 2-nitropropane	0.07803	0.08255	0.09337	0.09326	0.09493	0.08165			0.08476		1 11.2065
71 4-methyl-2-pentanone	0.32255	0.34849	1	0.35047	0.35434	0.30936			0.34803		8.0035
72 Tetrachloroethene	0.24256	0.27033	0.26280	0.26815	'	0.25100			0.26000		4.0866
73 trans-1,3-Dichloropropene	0.67307	0.68432	'		!	0.64824	1 1		0.69106		1 4.3747
	_								_		

Report Date: 19-Jan-2011 15:36

## GCAL, Inc.

## INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14 End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD
Target Version : 3.50
Integrator : HP RT
Method file : /var/ : HP RTE

: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo

	J 5 I	20	50	100	200	10	1		Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b ,	m1	m2	or R^2
	1   Level 7	 	 	.	 						
74 Ethyl Methacrylate	0.57993	0.53014	0.55351  	0.54948	0.55699	0.48239					8.23571
75 1,1,2-Trichloroethane	0.37680    0.40345		0.36565  	,	0.38204	0.38129	  AVRG		0.38294		3.08456
76 Dibromochloromethane	0.42485	'	1		'	0.41457	  AVRG		0.43241		3.31489
M 7 Total Difluorobenzene	+++++	+++++	+++++	+++++	+++++	++++					
77 1,3-Dichloropropane	   0.82225    0.79966	ĺ			0.77213	0.73602	  AVRG		0.77406		1 4.33954
78 1-nitropropane	0.05167	0.06059	0.06210	0.05893	I I	0.04558	  AVRG		0.05695		1 12.04912
79 1,2-Dibromoethane(EDB)	0.41657	0.41081	0.40659  	0.44021	0.43400	0.39866	'		0.41417		1 4.254391
	 			X -					_  _		   <u></u>

Report Date: 19-Jan-2011 15:36

## GCAL, Inc.

## INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14 End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD Target Version : 3.50 Integrator Method file

: HP RTE : /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo

	5	20	50	100	200	10	1 1	Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b m1	m2	or R^2
	1     Level 7	   	1 1 -1	<u>-</u>     	   	<del></del>	       			
81 1,2 Difluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	  AVRG	   0.000e+00		
165 3,3 dimethyl 1-butanol	+++++	+++++	+++++	   +++++   	+++++	++++	I I	0.000e+00		0.000e+00
80 2-Hexanone	0.49686	0.55789	1	  0.57324 	0.58243					
82 1-Chlorohexane	0.56687	0.45218	0.47827	0.56497	0.49174		        AVRG			13.11151
84 Chlorobenzene ++	1.03383	·	i i	1.03027	1	0.97406	  AVRG			
85 Ethylbenzene +	0.50839	0.49562	1	0.51357		0.47600	        AVRG			
86 1,1,1,2-Tetrachloroethane	0.36925	0.35833		'	,	0.36558				8.10461
					I					_

## INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14 End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD Target Version : 3.50 : ISTD Integrator Method file : HP RTE

: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo

	5	20	50	100	200	10	1 1		Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
	1 1 1	 		, 			1 1				1
	Level 7	.									 
87 p,m-Xylene	0.598491	0.61488	0.58923	0.65597	•	0.56374			1		1
	0.66451						AVRG		0.61968		6.19191
89 o-Xylene	0.58431	'		0.64691		0.56084			i		i.
	0.63074		·				AVRG		0.61048		5.17633
90 Styrene	0.97718	1.04843	1.05187	1.15169	1.16530				i		
	1.02756						AVRG		1.06888		6.28230
91 Bromoform ++	0.29801	0.31469	0.30906	0.34065	0.33337				i i		1
	0.23229						AVRG     -		0.30466  -		11.62145
92 1,5 Cyclooctadiene	+++++	+++++	+++++	++++	+++++	+++++	i i		İ		1
	+++++						AVRG		0.000e+00		0.000e+00
93 Isopropylbenzene	1.41166	1.50717	1.49183	1.60660	1.62216				1		Ĺ
	1.57965		 I		 		AVRG		1.50981		6.76039
5 n-Propylbenzene	2.45732		2.29504	2.40271	2.42438						Ì
	2.72316						AVRG		2.40215		6.91021
							11		_		1

Report Date: 19-Jan-2011 15:36 Page 15

## GCAL, Inc.

## INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14 : 07-JAN-2011 20:23 End Cal Date

Quant Method : ISTD Target Version : 3.50 Intégrator : HP RTE

: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo Method file

Compound	5     Level 1	20   Level 2	50   Level 3		200     Level 5			b	Coefficients ml	m2	%RSD   or R^.	
	1     Level 7	1	1	,   	 	•	! ! ! ! !					
96 Bromobenzene	1.17356  1.37411	1.08521	1.03701	ı	1.05722	1.07848					     10.49	
97 1,1,2,2-Tetrachloroethane++	0.95186	. !	0.85006    0.85006	0.86506	0.84873	0.87670	  AVRG		0.88301		     4.04	
98 2-Chlorotoluene	   1.78147    1.88464	1.64082	1.65435    1.65435	l	1.74362				1.72098		     5.40	)754
99 1,3,5-Trimethylbenzene	1.43821	. 1	1.43637	1.50853		1.36069			1.43406		1 3.82	2101
100 1,2,3-Trichloropropane	1.23635	1	1.13366	1.18338	1.16283	1.13242			1.17573		     3.47	7092
101 trans-1,4-Dichloro-2-Butene	0.30333	0.29083	0.29099	0.28172	0.28793	0.28417			0.30364		1 12.25	5099
102 Cyclohexanone	0.11477  0.10759	0.12070				0.11891	1 1		0.11253		     6.97	7740

## INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14 End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD Target Version : 3.50 Integrator Method file : HP RTE

: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo

	5	20	50	100	200	10	1 1		Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	1						1				
	Level 7		1				l I				1
114 2-ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	1 1		1 1		
	+++++				 		AVRG		0.000e+00		0.000e+00
103 4-Chlorotoluene	1.56660	1.59562	1.55728	1.62404					1 1		
	1.68755						AVRG		1.59957		3.40621
104 tert-butylbenzene	0.88449		0.899261	0.89207	0.88647				1		
	0.99562	·					AVRG     -		0.89384		5.62855
105 Pentachloroethane	0.31894		0.28610	0.28454	0.31718	0.30933			1		i i
	0.29261  				 		AVRG     -		0.29737		6.00609
106 1,2,4-Trimethylbenzene	1.48837		1.48640	1.53425	1.55119				1		1
	1.52667  				 		AVRG     -		1.48996		3.836531
107 sec-Butylbenzene	1.70842		1.72066	1.82504	1.83579				1		1
	2.01734						AVRG		1.78112		6.99172  -
108 p-Isopropyltoluene	1.29942		1.34237	1.38588	1.41100						1
	1.43474						AVRG     -		1.34426		5.24474
					l		ll_		.1i		_11

Page 17 Report Date: 19-Jan-2011 15:36

## GCAL, Inc.

## INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14
End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD Target Version : 3.50 Integrator Method file : HP RTE

: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo

	5	20	50	100	200	10	1 1	Coefficients	%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b m1 m2	or R^2
	1 1								1 1
	Level 7							=======================================	
119 1-3 Diethylbenzene	+++++	+++++	+++++	+++++	++++	+++++	1 1	1	
	+++++				 		AVRG	0.000e+00	0.000e+00
118 1-4 Diethylbenzene	+++++	++++	+++++	+++++	+++++	+++++	1 1	1 1	1 1
·	+++++				 		AVRG	0.000e+00	0.000e+00
109 Dicylopentadiene	1.93689	2.05320	2.07844	2.18340	2.15803	2.22008	1 1	i i	
	2.02635		 				AVRG	2.09377	4.74231
113 3-ethyltoluene	+++++	++++	+++++	+++++	++++	++++		1	1 1
	+++++				 		AVRG	0.000e+00	0.000e+00
110 1,3-Dichlorobenzene	0.94124	0.87044	0.90138	0.89758	0.90680	0.86147	1	i	
	0.91045				 		AVRG	0.89848	2.94678
112 1,4-Dichlorobenzene	0.93862					0.95817	i i	i i	
	1.07106				 		AVRG	0.96162	5.19472  
I 124 TOTAL XYLENE	0.59376								i i
	0.65326				 	 	AVRG	0.61661	5.77047
·	(				1		1 1		1

Report Date: 19-Jan-2011 15:36

## GCAL, Inc.

## INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14
End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD
Target Version : 3.50
Integrator : HP R
Method file : /var, : HP RTE

: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo

	5 1	20	50	100	200	10	1 1		Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	1     Level 7										
117 1-2 Diethylbenzene	+++++     +++++	+++++	+++++	+++++	+++++ ;   	++++	  AVRG				
115 n-Butylbenzene	1.25687  1.31269		1.27974	1.35498	'	1.13625	I I IAVRG I		1.27487		
116 1,2-Dichlorobenzene	0.91239	0.85678		1	0.87732	0.75361	I I  AVRG				6.03022
127 Total Diethylbenzene	+++++     +++++	++++	+++++	++++	+++++	. ++++	I I				
120 1,2-Dibromo-3-Chloropropane	0.15451				0.17652	0.15610	  AVRG		0.16295		8.83937
128 2-methylnapthalene		+++++	   +++++   	++++	+++++	++++	        AVRG		0.000e+00		
121 Benzal Chloride		+++++	   +++++   	++++	++++	++++	          AVRG		0.000e+00		
									-		-

## INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14
End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD Target Version : 3.50 Integrator Method file : HP RTE

: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo

Compound	5     Level 1	20   Level 2	50   Level 3	100   Level 4	200 Level 5		  Curve		Coefficients ml	m2	%RSD   or R^2
	1     Level 7										 
122 Hexachlorobutadiene	   0.17684    0.16191	1	0.17054		0.17044	0.16373	  AVRG				3.34753
123 1,2,4-Trichlorobenzene	0.32969	0.38198	0.38323  	0.41611	0.42552	0.35496	  AVRG		0.38742		   9.30543
125 Naphthalene	1.11706	'	,	1.43113	1.48753	1.09531	  AVRG		1.25093		1 13.53402
126 1,2,3-Trichlorobenzene	0.36033	0.34503    0.34503	0.36122  	,		0.31733	•		0.36051	-	   7.11500
\$ 39 Dibromofluoromethane	0.28146    0.27590	·	0.28721	İ	· 		AVRG				1.66892
\$ 48 1,2-Dichloroethane-d4	0.17400	0.17405	•	0.17047	0.16938	0.17010	  AVRG		0.17221		   1.48445
\$ 67 Toluene-d8	2.08625			. '		2.09355		<del></del>	2.06512		   2.63391
						 			-  - _  _		-1 -1

Report Date: 19-Jan-2011 15:36 Page 20

GCAL, Inc.

#### INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14 End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD
Target Version : 3.50
Integrator : HP RT
Method file : /var/ : HP RTE

: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m : 12-Jan-2011 10:50 rjo

1	5	20	50	100	200	10	l	I	Coefficients	3	%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	l b	m1	m2	or R^2
				l			l	I			1: 1:
1	1				l	1	l	L			1
1	Level 7	1 1		I	I	l	ĺ	1			1
		=======================================				========	=====	========			
\$ 94 Bromofluorobenzene	0.59508	0.58466	0.59016	0.63036	0.60515	0.57523	I	1	1		1
1	0.58392	. 1		l	l		AVRG	I.	0.59494		3.06681
				I					-		11
		l			l		i	1	_1		lI

#### INITIAL CALIBRATION DATA

Start Cal Date : 07-JAN-2011 11:14 End Cal Date : 07-JAN-2011 20:23

Quant Method : ISTD Target Version : 3.50 Integrator : HP RTE

Method file : /var/chem/msv5.i/2110107p.s.b/8260Bw5.m

Cal Date : 12-Jan-2011 10:50 rjo

Curve   Formula	i	Units	١
	=   =		-
Averaged   Amt = Rsp/ml	1	Response	Į
Linear   Amt = b + Rsp/m1	1	Response	١
	_1.		_1

Data File: /var/chem/msv5.i/2110107.s.b/k9756.d

Report Date: 09-Jan-2011 13:30

GCAL, Inc.

#### RECOVERY REPORT

Client Name:

Client SDG: 2110107.s

Sample Matrix: LIQUID

Fraction: VOA

Lab Smp Id: 1600

Client Smp ID: APP9ICV

Page 1

Level: LOW

Operator: JCK

Data Type: MS DATA SpikeList File: app9icv.spk

SampleType: LCS Quant Type: ISTD

Sublist File: APP9.sub

Method File: /var/chem/msv5.i/2110107.s.b/8260Bw5.m Misc Info: MSV~20793~*1*JCK

		CONC	CONC	%	1
SPIKE	COMPOUND	ADDED	RECOVERED	RECOVERED	LIMITS
		ug/L	ug/L	<u>'</u>	
4	1-3 Butadiene	50.0	45.1	90.20	  60-140
10	Ethyl Ether	250	317	,	160-140
	Allyl chloride	50.0	55.1	110.23	160-140
	tert-Butyl Alcohol	50.0	60.1		160-140
	Acetonitrile	200	270	134.79	160-140
25	Isopropyl Ether	50.0	47.8	95.50	160-140
26	Chloroprene	50.0	52.2	104.34	60-140
37	Ethyl Acetate	250	254	101.69	60-140
38	Tetrahydrofuran	1 250	237	94.97	60-140
41	sec-Butanol	50.0	58.1	116.26	60-140
44	2-2-4 trimethyl Pentane	50.0	52.3	104.69	60-140
46	Propionitrile	250	273	109.10	60-140
47	Methacrylonitrile	50.0	55.3	110.59	160-140
50	Isobutyl Alcohol	250	255	102.03	60-140
56	n-Butanol	250	263	105.02	60-140
58	2-3 Dichloro-1-Proprene	50.0	61.2	122.50	60-140
62	Methyl methacrylate	50.0	51.3	102.54	60-140
63	1,4- Dioxane	1250	1330	106.11	60-140
70	2-nitropropane	50.0	62.6	125.10	160-140
74	Ethyl Methacrylate	50.0	52.8	105.52	160-140
78	1-nitropropane	50.0	63.6		60-140
92	1,5 Cyclooctadiene	50.0	0.00	N7 *	160-140
	Cyclohexanone	100	103	102.67	60-140
105	Pentachloroethane	50.0	51.3	102.51	60-140
109	Dicylopentadiene	50.0	59.2		160-140
121	Benzal Chloride	100	0.00	I NT 0.00*	60-140
<del></del>		I	l	I	.

Data File: /var/chem/msv5.i/2110107p.s.b/k9766.d

Report Date: 09-Jan-2011 13:41

GCAL, Inc.

#### RECOVERY REPORT

Client Name:

Client SDG: 2110107p.s

Page 1

Sample Matrix: LIQUID

Fraction: VOA

Lab Smp Id: 1600

Client Smp ID: 8260ICV

Level: LOW

Operator: JCK

Data Type: MS DATA SpikeList File: ICV.spk SampleType: LCS Quant Type: ISTD

Sublist File: 8260b.sub Method File: /var/chem/msv5.i/2110107p.s.b/8260Bw5.m

Misc Info: MSV~20794~*1*JCK

SPIKE	COMPOUND	CONC     ADDED	CONC RECOVERED	%   RECOVERED	  LIMITS
		ug/L	ug/L	  -	
1	Dichlorodifluoromethane	50.0	66.1	132.12	60-140
2	Chloromethane ++	50.0	54.8	109.54	70-130
3	Vinyl Chloride +	50.0	51.3	102.64	70-130
5	Bromomethane	50.0	55.9	111.79	60-140
8	Chloroethane	50.0	54.0	108.00	70-130
9	Trichlorofluoromethane	50.0	52.0	103.95	70-130
11	1,1-Dichloroethene +	50.0	47.7	95.34	70-130
12	Carbon Disulfide	50.0	51.8	103.63	70-130
13	1,1,2Trichlotrifluoroethane	50.0	51.2	102.39	70-130
14	Methyl Iodide	50.0	38.4	76.85	70-130
. 15	Acrolein	250	205	82.18	60-140
17	Methylene Chloride	50.0	47.8	95.67	70-130
18	Acetone	50.0	51.8	103.65	60-140
19	trans-1,2-Dichloroethene	50.0	48.6	97.23	70-130
22	MTBE	50.0	48.5	96.98	70-130
27	1,1-Dichloroethane ++	50.0	50.7	101.37	70-130
29	Acrylonitrile	250	239	95.58	160-140
30	Vinyl Acetate	50.0	35.4	70.78	70-130
31	cis-1,2-Dichloroethene	50.0	49.0	97.94	70-130
32	2,2-Dichloropropane	50.0	47.0	94.02	70-130
34	Cyclohexane	50.0	47.5	95.00	70-130
33	Bromochloromethane	50.0	49.8	99.57	170-130
35	Chloroform +	50.0	50.1	100.27	170-130
36	Carbon Tetrachloride	50.0	50.4	100.73	70-130
40	1,1,1-Trichloroethane	50.0	47.6	95.26	70-130
43	1,1-Dichloropropene	50.0	48.8	97.70	70-130
42	2-Butanone	50.0	50.0	100.08	160-140
45	Benzene	50.0	47.8	95.51	170-130
49	1,2-Dichloroethane	50.0	47.3	94.58	70-130
53	Methyl Cyclohexane	50.0	49.7	99.32	70-130
	Trichloroethene	50.0	49.2	98.43	70-130
57	Dibromomethane	50.0	47.8	95.57	70-130
59	1,2-Dichloropropane +	50.0	52.1	104.16	-
		l	-		1

Data File: /var/chem/msv5.i/2110107p.s.b/k9766.d Report Date: 09-Jan-2011 13:41

1		CONC	CONC	9	1
SPIKE	COMPOUND	ADDED	RECOVERED	RECOVERED	LIMITS
1	•	ug/L	ug/L		1
60	Bromodichloromethane	_!   50.0	50.4	100.85	70-130
65	2-Chloroethyl vinyl ether	50.0	50.5	101.03	60-140
66	cis-1,3-Dichloropropene	50.0	50.7	101.45	70-130
69	Toluene +	50.0	52.0	103.94	70-130
72	Tetrachloroethene	50.0	52.4	104.70	70-130
71	4-methyl-2-pentanone	50.0	51.3	102.58	60-140
73	trans-1,3-Dichloropropene	50.0	54.7	109.34	70-130
75	1,1,2-Trichloroethane	50.0	56.3	112.59	70-130
76	Dibromochloromethane	50.0	53.0	106.02	70-130
77	1,3-Dichloropropane	50.0	56.0	111.99	70-130
79	1,2-Dibromoethane(EDB)	50.0	53.6	107.22	70-130
80	2-Hexanone	50.0	52.9	105.87	60-140
84	Chlorobenzene ++	50.0	52.8	105.58	70-130
85	Ethylbenzene +	50.0	52.6	105.21	70-130
86	1,1,1,2-Tetrachloroethane	50.0	49.7	99.40	70-130
87	p,m-Xylene	100	108	107.86	70-130
89	o-Xylene	50.0	54.4	108.87	70-130
90	Styrene	50.0	58.0	116.06	70-130
91	Bromoform ++	50.0	56.4	112.73	70-130
93	Isopropylbenzene	50.0	54.4	108.86	70-130
96	Bromobenzene	50.0	50.4	100.75	70-130
95	n-Propylbenzene	50.0	52.5	105.05	70-130
97	1,1,2,2-Tetrachloroethane++	50.0	50.0	99.90	70-130
98	2-Chlorotoluene	50.0	53.8	107.60	70-130
99	1,3,5-Trimethylbenzene	50.0	53.7	107.34	70-130
100	1,2,3-Trichloropropane	50.0	52.5	105.02	70-130
101	trans-1,4-Dichloro-2-Butene	50.0	52.0	104.00	60-140
103	4-Chlorotoluene	50.0	52.1	104.12	70-130
104	tert-butylbenzene	50.0	52.1	104.11	70-130
106	1,2,4-Trimethylbenzene	50.0	53.7	107.33	70-130
107	sec-Butylbenzene	50.0	51.9	103.88	70-130
108	p-Isopropyltoluene	50.0	55.0	109.99	70-130
110	1,3-Dichlorobenzene	50.0	52.0	103.92	70-130
112	1,4-Dichlorobenzene	50.0			70-130
115	n-Butylbenzene	50.0	52.9	105.85	70-130
116	1,2-Dichlorobenzene	50.0		102.73	70-130
120	1,2-Dibromo-3-Chloropropane	50.0			60-140
	Hexachlorobutadiene	50.0			70-130
123	1,2,4-Trichlorobenzene	50.0			70-130
	Naphthalene	50.0			70-130
	1,2,3-Trichlorobenzene	50.0	55.4		70-130
l		_			

	CONC	CONC RECOVERED ug/L	%
SURROGATE COMPOUND	ADDED		RECOVERED  LIMITS
	ug/L		
\$ 39 Dibromofluoromethane			
	50.0	47.4	94.72  77-127

Data File: /var/chem/msv5.i/2110118p.s.b/k9905.d

Report Date: 18-Jan-2011 15:49

GCAL, Inc.

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv5.i Injection Date: 18-JAN-2011 13:19

Lab File ID: k9905.d

Analysis Type: WATER

Lab Sample ID: 1400 Quant Type: ISTD Method: /var/chem/msv5.i/2110118p.s.b/8260Bw5.m

	l l	1	CCAL   MIN	I	MAX	
COMPOUND	RRF / AMOUNT	RF50		%D / %DRIFT %D		
1 Dichlorodifluoromethane		0.20822	0.20822 0.010	13.15246	40.000001	
2 Chloromethane ++	0.16561	0.17623	0.17623 0.100	6.41501	30.000001	Averaged
3 Vinyl Chloride +	0.18701	0.19986	0.19986 0.010	6.87224	20.000001	Averaged
5 Bromomethane	0.090221	0.09120	0.09120 0.010	1.07661	40.000001	Averaged
8 Chloroethane	56.51034	50.000001	0.10435 0.010	13.02069	30.000001	Linea
9 Trichlorofluoromethane	0.23852	0.26024	0.26024 0.010	9.10697	30.000001	Average
11 1,1-Dichloroethene +	0.12971	0.13867	0.13867 0.010	6.90811	20.00000	Average
12 Carbon Disulfide	56.92631	50.00000	0.49891 0.010	13.85263	30.000001	Linea
13 1,1,2Trichlotrifluoroethane	0.13878	0.15490	0.15490 0.010	11.61456	30.000001	Average
14 Methyl Iodide	43.53534	50.000001	0.11601 0.010	-12.92931	30.000001	Linear
15 Acrolein	0.020031	0.01860	0.01860 0.010	-7.10293	40.000001	Average
17 Methylene Chloride	0.20164	0.20761	0.20761 0.010	2.96283	30.000001	Average
18 Acetone	0.11954	0.12318	0.12318 0.010	3.03921	40.000001	Average
19 trans-1,2-Dichloroethene	0.21225	0.22477	0.22477 0.010	5.89722	30.000001	Average
20 Methyl Acetate	0.20687	0.23041	0.23041 0.010	11.37677	30.000001	Average
21 Hexane	0.14719	0.17417	0.17417 0.010	18.32479	30.000001	Average
22 MTBE	0.45777	0.48767	0.48767 0.010	6.53150	30.000001	Average
27 1,1-Dichloroethane ++	0.30272	0.33132	0.33132 0.100	9.45057	30.000001	Average
29 Acrylonitrile	0.09330	0.09540	0.09540 0.010	2.25584	40.000001	Average
30 Vinyl Acetate	0.37585	0.27619	0.27619 0.010	-26.51588	30.000001	Average
M 61 Total 1,2-Dichloroethene	0.22881	0.24468	0.24468 0.010	6.93748	30.00000	Average
31 cis-1,2-Dichloroethene	0.24537	0.26460	0.26460 0.010	7.83734	30.00000	Average
32 2,2-Dichloropropane	0.27468	0.29296	0.29296 0.010	6.65365	30.000001	Average
34 Cyclohexane	0.26008	0.28553	0.28553 0.010	9.78406	30.000001	Average
33 Bromochloromethane	0.088361	0.09582	0.09582 0.010	8.43511	30.000001	Average
35 Chloroform +	0.32069	0.34304	0.34304 0.010	6.97117	20.00000	Average
36 Carbon Tetrachloride	0.21459	0.24299	0.24299 0.010	13.23503	30.000001	Average
\$ 39 Dibromofluoromethane	0.28030	0.27778	0.27778 0.050	-0.89953	30.000001	Average
40 1,1,1-Trichloroethane	0.27266	0.28563	0.28563 0.010	4.75654	30.000001	Average
42 2-Butanone	0.19467	0.21833	0.21833 0.010	12.14994	40.000001	Average
43 1,1-Dichloropropene	0.25289	0.26811	0.26811 0.010	6.01786	30.000001	Average
45 Benzene	0.71305	0.72909	0.72909 0.010	2.24870	30.000001	Average
\$ 48 1,2-Dichloroethane-d4	0.17221	0.17377	0.17377 0.050	0.90524	30.000001	Average
49 1,2-Dichloroethane	0.27657	0.29427	0.29427 0.010	6.39678	30.000001	Average
53 Methyl Cyclohexane	0.21810	0.253921	0.25392 0.010	16.42166	30.000001	Average

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Data File: /var/chem/msv5.i/2110118p.s.b/k9905.d

Report Date: 18-Jan-2011 15:49

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## GCAL, Inc.

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv5.i Injection Date: 18-JAN-2011 13:19

Lab File ID: k9905.d Init. Cal. Date(s): 07-JAN-2011 07-JAN-2011

Analysis Type: WATER Init. Cal. Times: 11:14 20:23

Lab Sample ID: 1400 Quant Type: ISTD Method: /var/chem/msv5.i/2110118p.s.b/8260Bw5.m

	11	1	CCAL   MIN	1	MAX	I
COMPOUND	RRF / AMOUNT	RF50		%D / %DRIFT		
54 Trichloroethene	0.16841	0.17419	0.17419 0.010	,	30.00000	•
57 Dibromomethane	0.13667	0.14709	0.14709 0.010	7.62451	30.00000	Averaged
59 1,2-Dichloropropane +	0.18521	0.20144	0.20144 0.010	8.76401	20.00000	Averaged
60 Bromodichloromethane	0.25927	0.28095	0.28095 0.010	8.36057	30.00000	Averaged
64 1-Bromo-2-chloroethane	0.29415	0.31756	0.31756 0.010	7.959821	30.00000	Averaged
65 2-Chloroethyl vinyl ether	0.16621	0.16401	0.16401 0.010	-1.31966	40.00000	Averaged
66 cis-1,3-Dichloropropene	0.32270	0.36268	0.36268 0.010	12.39104	30.00000	Averaged
\$ 67 Toluene-d8	2.06512	1.98392	1.98392 0.050	-3.93190	30.00000	Averaged
69 Toluene +	1.63499	1.62143	1.62143 0.010	-0.829681	20.00000	Averaged
M 6 1-3 Dichloropropene-Total	0.32194	0.36748	0.36748 0.010	14.14641	30.00000	Averaged
71 4-methyl-2-pentanone	0.34803	0.39233	0.39233 0.010	12.73053	40.00000	Averaged
72 Tetrachloroethene	0.26000	0.27107	0.27107 0.010	4.25930	30.00000	Averaged
73 trans-1,3-Dichloropropene	0.69106	0.76026	0.76026 0.010	10.01331	30.00000	Average
75 1,1,2-Trichloroethane	0.38294	0.39823	0.39823 0.010	3.993041	30.00000	Averaged
76 Dibromochloromethane	0.43241	0.45830	0.45830 0.010	5.98616	30.00000	Average
77 1,3-Dichloropropane	0.77406	0.79127	0.79127 0.010	2.22380	30.00000	Average
79 1,2-Dibromoethane(EDB)	0.41417	0.44392	0.44392 0.010	7.18367	30.00000	Average
80 2-Hexanone	0.55171	0.60658	0.60658 0.010	9.94575	40.00000	Average
82 1-Chlorohexane	0.52926	0.51950	0.51950 0.010	-1.84371	30.00000	Average
84 Chlorobenzene ++	1.01725	1.01882	1.01882 0.300	0.15448	30.00000	Average
85 Ethylbenzene +	0.51567	0.51038	0.51038 0.010	-1.02494	20.00000	Average
86 1,1,1,2-Tetrachloroethane	0.37291	0.36367	0.36367 0.010	-2.47726	30.00000	Average
87 p,m-Xylene	0.61968	0.63278	0.63278 0.010	2.11436	30.00000	Averaged
89 o-Xylene	0.61048	0.63490	0.63490 0.010	4.000081	30.00000	Average
90 Styrene	1.06888	1.13117	1.13117 0.010	5.82732	30.00000	Averaged
91 Bromoform ++	0.30466	0.33495	0.33495 0.100	9.940881	30.00000	Average
93 Isopropylbenzene	1.50981	1.64256	1.64256 0.010	8.79275	30.00000	Average
\$ 94 Bromofluorobenzene	0.59494	0.61086	0.61086 0.050	2.67734	30.00000	Average
95 n-Propylbenzene	2.40215	2.50218	2.50218 0.010	4.16414	30.00000	Average
96 Bromobenzene	1.12498	1.08584	1.08584 0.010		30.00000	
97 1,1,2,2-Tetrachloroethane++	0.88301	0.89732	0.89732 0.300		30.00000	
98 2-Chlorotoluene	1.72098	1.75824	1.75824 0.010		30.00000	
99 1,3,5-Trimethylbenzene	1 1.434061	1.55105	1.55105 0.010		30.00000	
100 1,2,3-Trichloropropane	1.17573	1.21317	1.21317 0.000		30.00000	
101 trans-1,4-Dichloro-2-Butene	0.303641	0.31280	0.31280 0.010		40.00000	
		1	1	1		

Data File: /var/chem/msv5.i/2110118p.s.b/k9905.d Report Date: 18-Jan-2011 15:49

## GCAL, Inc.

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv5.i

Injection Date: 18-JAN-2011 13:19
Init. Cal. Date(s): 07-JAN-2011 07-JAN-2011 Lab File ID: k9905.d

Init. Cal. Times: 11:14 20:23

Analysis Type: WATER Init. Cal. Times: Lab Sample ID: 1400 Quant Type: ISTD Method: /var/chem/msv5.i/2110118p.s.b/8260Bw5.m

l ·	1	1	. 1	CCAL   MIN	. 1	MAX	
COMPOUND	RRF	/ AMOUNT	RF50	RRF50   RRF  %	D / %DRIFT %D	/ %DRIFT	CURVE TYPE
=======================================			======== ==			=======	=======
103 4-Chlorotoluene	1	1.59957	1.67002	1.67002 0.010	4.40447	30.000001	Average
104 tert-butylbenzene	1	0.89384	0.94090	0.94090 0.010	5.26413	30.000001	Average
106 1,2,4-Trimethylbenzene	1	1.48996	1.57739	1.57739 0.010	5.86814	30.000001	Average
107 sec-Butylbenzene	1	1.78112	1.94695	1.94695 0.010	9.31075	30.00000	Average
108 p-Isopropyltoluene	1	1.34426	1.48578	1.48578 0.010	10.52733	30.000001	Average
110 1,3-Dichlorobenzene	1	0.89848	0.92353	0.92353 0.010	2,78831	30.000001	Average
112 1,4-Dichlorobenzene	1:	0.96162	0.97188	0.97188 0.010	1.06693	30.00000	Average
M 124 TOTAL XYLENE	1	0.61661	0.633491	0.63349 0.010	2.73669	30.000001	Average
115 n-Butylbenzene	1	1.27487	1.46667	1.46667 0.010	15.04387	30.000001	Average
116 1,2-Dichlorobenzene	1	0.86405	0.90181	0.90181 0.010	4.37030	30.000001	Average
120 1,2-Dibromo-3-Chloropropane	1	0.16295	0.17811	0.17811 0.010	9.30284	40.000001	Average
122 Hexachlorobutadiene	1	0.17031	0.19669	0.19669 0.010	15.49055	30.000001	Average
123 1,2,4-Trichlorobenzene	ı	0.38742	0.43454	0.43454 0.010	12.16434	30.000001	Average
125 Naphthalene	ı	1.25093	1.44958	1.44958 0.010	15.87974	30.00000	Average
126 1,2,3-Trichlorobenzene	ı	0.36051	0.42193	0.42193 0.010	17.03589	30.00000	Average
	1	1		1 1	1	ı	

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Data File: /var/chem/msv5.i/2110118p.s.b/k9907.d

Report Date: 19-Jan-2011 13:57

GCAL, Inc.

#### CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv5.i Injection Date: 18-JAN-2011 14:09

Lab File ID: k9907.d Init. Cal. Date(s): 07-JAN-2011 07-JAN-2011

Analysis Type: WATER Init. Cal. Times: 11:14 20:23

Lab Sample ID: 1400 Quant Type: ISTD Method: /var/chem/msv5.i/2110118p.s.b/8260Bw5.m

	11	1	CCAL   MIN	1	MAX	1
COMPOUND	RRF / AMOUNT	RF50	RRF50   RRF  %I	/ %DRIFT %D	/ %DRIFT	CURVE TYPE
	===== =================================		====== ==== ==		======	
4 1-3 Butadiene	0.16952	0.19571	0.19571 0.010	15.44774	40.00000	Averaged
10 Ethyl Ether	0.10374	0.13897	0.13897 0.010	33.95814	40.000001	Averaged
16 Allyl chloride	0.14511	0.17182	0.17182 0.010	18.41230	40.00000	Averaged
23 tert-Butyl Alcohol	0.02551	0.03073	0.03073 0.010	20.48330	40.00000	Averaged
24 Acetonitrile	0.03466	0.040991	0.04099 0.010	18.27230	40.000001	Averaged
25 Isopropyl Ether	0.59830	0.57559	0.57559 0.050	-3.79489	40.000001	Averaged
26 Chloroprene	0.22434	0.24942	0.24942 0.010	11.17874	40.000001	Averaged
37 Ethyl Acetate	0.31050	0.37163	0.37163 0.010	19.68781	40.00000	Averaged
38 Tetrahydrofuran	0.11417	0.13214	0.13214 0.010	15.73414	40.000001	Averaged
41 sec-Butanol	0.02999	0.03712	0.03712 0.010	23.77288	40.00000	Averaged
44 2-2-4 trimethyl Pentane	66.95624	50.00000	0.50782 0.010	33.91247	40.000001	Linear
46 Propionitrile	0.04516	0.05751	0.05751 0.010	27.35623	40.00000	Averaged
47 Methacrylonitrile	0.20822	0.22783	0.22783 0.010	9.41716	40.000001	Averaged
50 Isobutyl Alcohol	0.01606	0.01615	0.01615 0.010	0.55888	40.00000	Averaged
56 n-Butanol	0.01116	0.01306	0.01306 0.010	17.06802	40.00000	Averaged
58 2-3 Dichloro-1-Proprene	0.29171	0.30719	0.30719 0.010	5.30864	40.000001	Averaged
62 Methyl methacrylate	0.18792	0.20185	0.20185 0.010	7.41143	40.000001	Averaged
63 1,4- Dioxane	0.00273	0.00335	0.00335 0.001	22.65092	40.000001	Averaged
70 2-nitropropane	0.08476	0.10776	0.10776 0.010	27.13617	40.00000	Averaged
74 Ethyl Methacrylate	0.53023	0.51894	0.51894 0.010	-2.12759	40.000001	Averaged
78 1-nitropropane	0.05695	0.07044	0.07044 0.010	23.69083	40.000001	Averaged
102 Cyclohexanone	0.11253	0.12336	0.12336 0.010	9.62024	40.00000	Averaged
105 Pentachloroethane	0.29737	0.28830	0.28830 0.010	-3.05192	40.000001	Averaged
109 Dicylopentadiene	2.09377	2.41885	2.41885 0.010	15.52627	40.000001	Averaged
121 Benzal Chloride	++++	0.16400	0.16400 0.010	++++	40.000001	Averaged <
	1					-

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# 8A VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

ı	Lab Name: GCAL		Contra	act:			
L	Lab Code: LA024 Case No.:		SAS	No.:	SD	G No.: 2110	11405
l	Lab File ID ( Standard ): 2110116/a8959		Date A	Analyzed: 01	/16/11		
ı	Instrument ID: MSV11		Time:	0859	***************************************		
(	GC Column: RTX-VMS-30 ID: .25	(mm)	Heate	d Purge: (Y/N)	N		
1	Analytical Batch: 449012						
		IS 1		IS 2		IS 3	
		Area	RT	Area	RT	Area	RT
	STANDARD	102426	8.6	96252	11.82	267435	5.28
	EPA Sample	#	#	#	#	#	#
1.	LCS913049	104129	8.6	99408	11.82	264793	5.28
2 .	LCSD913050	105635	8.6	99611	11.82	269364	5.28

8.59

8.6

8.6

8.6

85561

80672

81442

79675

11.82

11.82

11.82

11.82

261369

258968

259547

256335

5.28

5.28

5.28

5.28

98814

94718

96155

95452

IS 1 ID : Chlorobenzene-d5
IS 2 ID : 1,4-Dichlorobenzene-d4

IS 3 ID: Fluorobenzene

3. MB913048

5. TRIP BLANK 1

6. TRIP BLANK 2

4 . EQUIPMENT BLANK

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = -50% of internal standard area RT UPPER LIMIT = +0.50 minutes of internal standard RT RTLOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk

^{*} Value outside of QC limits

## **VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY**

Lab Name: GCA	L		Contract:	
Lab Code: LA02	4	Case No.:	SAS No.:	SDG No.: 211011405
Lab File ID (Stand	dard):	2110116/a8960s	Date Analyzed: 01/16/11	Time: 0923
Instrument ID:	MSV11		GC Column: RTX-VMS-30M	ID: .25 (mm)
Analytical Batch:	449013	3	Heated Burge: (Y/N) Y	

	IS1		IS2		IS3	
	Area	RT	Area	RT	Area	RT
STANDARD	264793	5.28	104129	8.60	99408	11.82
EPA Sample No.	#		#	#	#	# .
LCS913052	264793	5.28	104129	8.60	99408	11.82
LCSD913053	269364	5.28	105635	8.60	99611	11.82
MB913051	233158	5.28	89050	8.59	88124	11.82
T-15-F	243009	5.28	92304	8.60	91030	11.82
T-15-F MS	261850	5.28	103314	8.60	97972	11.82
T-15-F MSD	266506	5.28	105177	8.60	102063	11.82
T-21-F	229819	5.28	89091	8.60	89516	11.82
NC-0-0.3	236281	5.28	92486	8.60	94286	11.82
T-6-NORTH	243988	5.28	95200	8.60	99118	11.82
SC-W	247517	5.28	97285	8.60	98863	11.82
SC-E	255725	5.28	98817	8.60	99437	11.82
T-6-FLOOR	272865	5.28	103268	8.60	94113	11.82
T-6-EAST	268644	5.28	101510	8.60	90410	11.82
T-6-SOUTH	266446	5.28	100967	8.60	86231	11.82
BLIND DUP	262564	5.28	100173	8.60	87929	11.82

IS 1 ID: Fluorobenzene

IS 2 ID: Chlorobenzene d5 IS 3 ID: 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = -50 % of internal standard area RT UPPER LIMIT = +0.50 minutes of internal standard RT RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag internal standard values with an asterisk. * Values outside of QC limits.

#### 8A

#### VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL		Contra	ct:				
Lab Code: LA024 Case No.:		SAS N	o.:	SD	G No.: 2110	011405	
Lab File ID ( Standard ): 2110118p/k9905		Date A	nalyzed: 01	/18/11			
Instrument ID: MSV5		Time:	1319				
GC Column: RTX-VMS-30 ID: .25	(mm)	Heated	d Purge: (Y/N)	N			····
Analytical Batch: 449157							
	IS 1		IS 2		IS 3	]	
	Area	RT	Area	RT	Area	RT	
STANDARD	448195	9.85	363706	11.93	915279	7.07	
EPA Sample	#	#	#	<b>#</b> .	#	<b>!</b> .	#
LCS913706	448195	9.85	363706	11.93	915279	7.07	Γ
LCSD913707	439975	9.85	376202	11.93	907873	7.07	
3 . MB913705	425374	9.86	320520	11.93	863672	7.07	
T-2-WEST	432364	9.84	327568	11.92	882603	7.06	

IS 1 ID: Chlorobenzene-d5

IS 2 ID: 1,4-Dichlorobenzene-d4

IS 3 ID: Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RTLOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk

^{*} Value outside of QC limits

## **VOLATILE SOLIDS PREPARATION**

SAMPLE	SAMPLE	SODIUM BI	SULFATE	AMOUNT OF	AMOUNT	OF	SURROGATE/	DATE/		
NUMBER	WEIGHT (g)	WEIGHT (g)	LOT#	WATER (ml)	METHANOL (ml)	LOT#	SPIKE	TIME	ANALYST	COMMENTS
	53.11		(1		13/4			10:34		
d	35.36	NA	NIT	N/A	NIA	N/a	N/A	1.1.13.11	EDS	Terra core
ATOTIS HOT B	53.67 35.83	1				<b>1</b>		10:34		
0117 0113 1101 13	47.63							10:34		
AIIDITS 1107 C	47.63 33.55							1.13.11		
	49.38			1		1		10:36		
anono nos a	35.58 47.85							1.13.11		
	35.52	/	1					10:36		
- H-9119 1100 15	41.74							10:36		
in the second	33.52 45.40							1.13.11		
<u> </u>	45.40	1 1						10:39		
100-2	35.76 45.95							10:39	<del>                                     </del>	
ATIONS TIVE B	35.94	1.1					1	10.34		
3/11/2/ 2	45.28							10:39		
ânon s nos	33.38							1.13.11		
	44.52 35.57	- 1 1						10:41		
אווערון בווער	44.40						ļ'	10:41	<del>                                     </del>	
direct > 110 Te	35.27			l l				1.13.11	\	
Another to 1	42.40 33.17	V	1	<b>\</b>	V.	4	V	10:41		
2110112 1409	5,17	NIA	NIA	Soo	NIA	N/A	NIA	11:15	CLH	la
V11011 V1907	5.63		1		***	1	1	11:16		1
	5,58	V	1		V	1	V	11:17	₩ <u>.</u>	
211011405014		NA	MA	NA	NA	NA	NA	12:30	RJU	Teracore
	41.54	ľ					i	12:31		
2110114050 B	35.24						<del>                                     </del>	1/14/11	<del>                                     </del>	<del>                                     </del>
211011405016	34.60 6	118						12:32		<b> </b>
211011405021	41.57 35.53							12:33		
211011405 <b>0B</b>	40.84 35.54							12:34		
211011H0508C	33.50 4	al I	<b>ユ</b>	1		1		12:35		

## **VOLATILE SOLIDS PREPARATION**

SAMPLE	SAMPLE	SODIUM BI	SULFATE	AMOUNT OF	AMOUN	r of	SURROGATE/	DATE/	T	
NUMBER	WEIGHT (g)	WEIGHT (g)	LOT#	WATER (ml)	METHANOL (ml)	LOT#	SPIKE	TIME	ANALYST	COMMENTS
21101140503 A	40.5G 35.64	M	WA	MA	MA	M	NA	12136 1/14/11	Psy	Terracore
21101140503B	42.05 35.70							1/14/11		<u> </u>
211011405036	2285/	0.03		,				1/14/11		
21101140504 A	41.70 36.05							12:34		
21101140504 B	41.59 35.58							12:40		
21101140504 C		5.81				<u> </u>		1/14/11	4	1
211011405054	40.74 ' 35.38		-					12142	-/	
2110114050513	35.60							18/47 18/47 18/44	1-1	
211011405050		71				· .		12:44		
211014056A	41.27 35.36							12/16	<del>                                     </del>	
21101140506 13	41.66 3552					<u> </u>		12:47	ļ.,	
211011405060	X 5 A X / V I	21 1		1		1		1/14/11	سلف	الم
21101140507A 21101140507B	35.31	wa	MA	NA	and	NA	NA	12:18	Bu	Ferracore
21101140507B	36.44					<del></del>		V14/11		e3/4/
1 R1101140507 c	32.74	477						12:50		
21101140508 1	34.93							12:51		
2110114050873	35.66							(2:51 1/14/11 2:50 V14/11 12:53 VM/11		
2110114058C	33.21	6.10						V14/11		
211011405091	35,89		_					18.54		
211011405093 21101140504C	35.87							12:55		
21/01/40504 C	33.19	5.23		4	2	d	4	(2:56 V/4/11		4

## **VOLATILE SOLIDS PREPARATION**

SAMPL	E SAMPLE	SODIUM B	SUI FATE	AMOUNT OF	AMOUNT	r of	SURROGATE/	DATE/		
NUMBE	## 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	WEIGHT (g)	LOT#	WATER (ml)	METHANOL (ml)	LOT#	SPIKE	TIME	ANALYST	COMMENTS
2011 OL140 S 10	14207	NIL	NA	N/A	N/A	N/A	NA	14:14	FDS	Tenacore
2110114051	0 B 35.77							14:14		
21101140510	2 C 133.63/	5.87	REPORTED TO THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE ST					14:14		
21101140511	29.72 & 35.19 _ 40.47							14:18		
21101140511	8 35.35							1.14.11	<b></b>	
21101140511	C 33.5(e/5.					<u> </u>		1.14.11		
21101140512	A 35.10							14:21		
21101140512	R 35.67	5						1.14.11		
21101140512	40.72	,						1.14.11		
21101140513	1 40.77			·				14:23		
21101140513	1 28.22 7,91	3						1-14-11		
21101140513	_   35.83	٨)/٢	N/A	NIA	N/A -	NU	N/A	14:44	EDS	Terracone
2010010 81 60 COM	43.03	7	j	\			(	14:44		1
Sittor From	39.48	Grundand ()						14:44 1:14:11		
AROTT 1003	35.32	0						1446		
21101191003	42.41							14:46		
AHUIT HOUS	40.41							1446		
2001-1002	44:52 35.51		_					14:49		
2.10.111002	36.52 36.52	1, 1				1		14:49 1-14-11 14:49		
311111003	39.63	4	<u> </u>	4	V	7	<u> </u>	1.14.11	A	

Date: 14-JAN-2011	Standar	d		Conc ppm	
<pre>Instrument: msv11.i</pre>	BFB IS/	SS	50	6-99-2	05/21/11
Analyst(s): RJO	8260 IS	/SS	50	6-99-2	05/21/11
	APP9-2		50	6-100-9	07/07/11
	APP9-1		50	6-97-3	05/16/11
	THF		50	6-97-9	05/19/11
	APP9-2	ICV	50	6-96-8	05/05/11
	APP9-1	ICV	50	6-98-3	02/14/11
	THF	ICV	50	6-93-11	04/06/11

Sample ID	Comments	DataFile	Wg	rt/Vol	Injection Time	l D	il	Anal	1	ALS
	I	I	1		I	I	I		1	
1000	RR	a8910.d		0.00 ml	14-JAN-2011 08:52		1.000	RJO	 I	2
1000	RR	a8911.d	1	0.00 ml	14-JAN-2011 09:24	ı	1.000	RJU	1	2
1000	1	a8912BFB.d	1	0.00 ml	14-JAN-2011 09:48	1	1.000	RJU	ı	2
1000	1	a8912BFBS.d	ı	0.00 ml	14-JAN-2011 09:48	1	1.000	RJU	1	:
1400	1	a8913.d	1	5.00 ml	14-JAN-2011 10:25	1	1.000	RJU	ı	21
1208	1	a8914.d	1	5.00 ml	14-JAN-2011 11:09	1	1.000	RJU	1	22
1201	1	a8915.d	1	5.00 ml	14-JAN-2011 11:41	1	1.000	RJU	ı	2
1206	1	a8916.d	1	5.00 ml	14-JAN-2011 12:09	1	1.000	RJU	1	2
1202	1	a8917.d	1	5.00 ml	14-JAN-2011 12:41	1	1.000	RJU	١	2
1400	1	a8918CCV.d	1	5.00 ml	14-JAN-2011 13:15	1	1.000	RJU	1	2
1203	1	a8918.d	1	5.00 ml	14-JAN-2011 13:15	1	1.000	RJU	1	2
1204	1	a8919.d	1	5.00 ml	14-JAN-2011 13:48	1	1.000	RJU	1	2
1205	L Transfer of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Con	a8920.d	1	5.00 ml	14-JAN-2011 14:28	1	1.000	RJU	1	. 2
BLANK	1	a8921.d	1	5.00 ml	14-JAN-2011 14:55	1	1.000	RJU	1	2
1600	1	a8922.d	1	5.00 ml	14-JAN-2011 15:30	1	1.000	RJU	1	3
912979	1	a8923.d	1	5.00 g	14-JAN-2011 16:08	1	50.000	RJU	1	3
912980		a8924.d	1	5.00 g	14-JAN-2011 16:41	1	50.000	RJU	1	3
SMB	1	a8925.d	1:	5.00 ml	14-JAN-2011 17:14	1	50.000	RJU	1 -	3
912978	1	a8926.d	1	5.00 g	14-JAN-2011 17:38	1	50.000	RJU	1	3
21101103001	1	a8927.d	ı	5.05 g	14-JAN-2011 18:14	1	50.000	RJU	1	3

TUNE = 21:48

Date: 15-JAN-2011	Standard	Conc ppm	ID	EXP
Instrument: msv11.i	BFB IS/SS	50	6-99-2	05/21/11
Analyst(s): RJU	8260 IS/SS	50	6-99-2	05/21/11
	8260	50	6-100-11	01/28/11
	AC/AC/VA	250/50	6-100-10	03/10/11
	CVE	50	6-100-3	06/29/11
	Heptane	250	6-98-2	05/28/11
1	8260 ICV	50	6-99-4	06/22/11
	AC/AC/VA ICV	250/50	6-98-12	01/17/11
	CVE ICV	50	6-89-11	02/11/11
	Heptane ICV	250	6-93-10	04/06/11

Sample ID	Comments	DataFile	Wg	gt/Vol	In	jection	Time	[	il	Anal	LI	ΑI
	l	<u> </u>	1		1 .			1		1	1	
1000		======================================		0.00 ml	15	-JAN-20	 11 08:16		1.000	RJU		==:
1000	1	a8930BFBD.d	1	0.00 ml	15	-JAN-20	11 08:16	1	1.000	RJU	1	
1209	RR	a8931.d	1	5.00 ml	15	-JAN-20	11 08:58	I	1.000	RJU	1	
1208	RR	a8932.d	1	5.00 ml	1 15	-JAN-20	11 09:32	1	1.000	RJU	- 1	
1201	1	a8933.d	1	5.00 ml	15	-JAN-20	11 09:57	. 1	1.000	RJU	i	
1201	1	a8933D.d	1	5.00 ml	15	-JAN-20	11 09:57	1	1.000	RJU	-1	
1206	I	a8934.d	1	5.00 ml	15	-JAN-20	11 10:21	1	1.000	RJU	i	
1206		a8934D.d	1	5.00 ml	15	-JAN-20	11 10:21	1	1.000	RJU	1	
1202	L	a8935.d	1	5.00 ml	15	-JAN-20	11 10:45	1	1.000	RJU	- 1	
1202	· I	a8935D.d	1	5.00 ml	15	-JAN-20	11 10:45	1	1.000	RJU	1	
1203	l	a8936.d	1	5.00 ml	15	-JAN-20	11 11:09	1	1.000	RJU	1	
1203	1	a8936D.d	1	5.00 ml	15	-JAN-20	11 11:09	1	1.000	RJU	1	
1204	. 1	a8937.d	1	5.00 ml	15	-JAN-20	11 11:32	1	1.000	RJU	1	
1204	1	a8937D.d	1	5.00 ml	15	-JAN-20	11 11:32	1	1.000	RJU	1	
1205	I	a8938.d	1	5.00 ml	15	-JAN-20	11 11:55	1	1.000	RJU	1	
1205	É e	a8938D.d	1	5.00 ml	15	-JAN-20	11 11:55	1	1.000	RJU	- 1	
BLANK	I	a8939.d	ı	5.00 ml	15	-JAN-20	11 12:19	1	1.000	RJU	- 1	
BLANK	I	a8940.d	1	5.00 ml	15	-JAN-20	11 12:42	1	1.000	RJU	- 1	
1208	I	a8941.d	1	5.00 ml	15	-JAN-20	11 13:06	1	1.000	RJU	1	
1208	I	a8941D.d	1	5.00 ml	15	-JAN-20	11 13:06	- 1	1.000	RJU	1	
1210	NOT USED	a8942.d	1	5.00 ml	15	-JAN-20	11 14:00	1	1.000	RJU	1	
1600	RR	a8943.d	1	5.00 ml	15	-JAN-20	11 14:24	1	1.000	RJU	- 1	
1600	I	a8944.d	1	5.00 ml	15	-JAN-20	11 14:59	-1	1.000	RJU	1	
1600	I	a8944D.d	1	5.00 ml	15	-JAN-20	11 14:59	1	1.000	RJU	- 1	
913039	I	a8945.d	1	5.00 ml	15	-JAN-20	11 15:33	1	1.000	RJU	- 1	
913040	I	a8946.d	-1	5.00 ml	15	-JAN-20	11 16:07	- 1	1.000	RJU	1	
MB	I	a8947.d	1	5.00 ml	15	-JAN-20	11 16:33	1	1.000	RJU	1	
913038	I	a8948.d	1	5.00 ml	15	-JAN-20	17:03	1	1.000	RJU	1	
21101121306	1	a8949.d	1	5.00 ml	15	-JAN-20	11 17:27	1	1.000	RJU	1	
21101121301	I	a8950.d	ı	5.00 ml	15	-JAN-20	17:50	1	1.000	RJU	1	
21101121302	L	a8951.d	ı	5.00 ml	15	-JAN-20	11 18:13	1	1.000	RJU	١	
21101121303	1	a8952.d	1	5.00 ml	15	-JAN-20	11 18:36	1	1.000	RJU	١	
21101121304	1	a8953.d	ı	5.00 ml	15	-JAN-20	19:00	1	1.000	RJU	1	
21101121305	LRNO WITH FOLLOWING	a8954.d	1	5.00 ml	15	-JAN-201	11 19:24	ı	5.000	RJU	١	
21101121305	LRNO WITH ABOVE	a8955.d	1	5.00 ml	15	-JAN-201	19:47	I	1.000	RJU		
BLANK	I	a8956.d	1	5.00 ml	1 15	TAN-201	11 20:10	- 1	1.000	RJU	1	

Date: 16-JAN-2011	Standard	Conc ppm	ID	EXP
Instrument: msv11.i	BFB IS/SS	50	6-99-2	05/21/11
Analyst(s): RJU	8260 IS/SS	50	6-99-2	05/21/11
<u>-</u>	8260	50	6-100-11	01/28/11
	AC/AC/VA	250/50	6-100-10	03/10/11
	CVE	50	6-100-3	06/29/11
	Heptane	250	6-98-2	05/28/11
	APP9-1	50	6-97-3	05/16/11
	APP9-2	50	6-100-9	07/07/11
	THF	50	6-97-9	05/19/11

Sample ID	Comments	DataFile	Wgt/	Vol	Injection Time	Dil	Anal	ALS
	T.	1	1		I		1	1
1000	RR	======================================		0.00 ml	16-JAN-2011 08:11	1.000		2
1000	· 1	a8958s.d	1	0.00 ml	16-JAN-2011 08:11	1.000	RJU	2
1400	APP9	a8959.d	ı	5.00 ml	16-JAN-2011 08:59	1.000	RJU	39
1400	APP9	a8959s.d	1	5.00 ml	16-JAN-2011 08:59	1.000	RJU	39
1400	1	a8960.d	1	5.00 ml	16-JAN-2011 09:23	1.000	RJU	40
913049	1 1 · · · · · · · · · · · · · · · · · ·	a8960L.d	ŀ	5.00 ml	16-JAN-2011 09:23	1.000	RJU	40
1400	1	a8960s.d	I	5.00 ml	16-JAN-2011 09:23	1.000	RJU	40
913052	1	a8960sL.d	ı	5.00 g	16-JAN-2011 09:23	50.000	RJU	40
913050	1	a8961.d	1	5.00 ml	16-JAN-2011 09:46	1.000	RJU	4
913053	1	a8961s.d	1	5.00 g	16-JAN-2011 09:46	50.000	RJU	4
MB	1	a8962.d	1	5.00 ml	16-JAN-2011 10:09	1.000	RJU	4
913048	I	a8963.d	1	5.00 ml	16-JAN-2011 10:33	1.000	RJU	4
913051	1	a8964.d	ı	5.00 g	16-JAN-2011 10:55	50.000	RJU	4
21101140501	1	a8965.d	1	6.18 g	16-JAN-2011 11:18	50.000	RJU	4
21101140514	1	a8966.d	ı	5.00 ml	16-JAN-2011 11:42	1.000	RJU	4
21101140515	1	a8967.d	l	5.00 ml	16-JAN-2011 12:05	1.000	RJU	4
21101140516	1	a8968.d	ı	5.00 ml	16-JAN-2011 12:28	1.000	RJU	4
21101143701	LRNO WITH 20/2	a8969.d	ı	5.00 ml	16-JAN-2011 12:51	1 100.000	RJU	4
21101143701	LRNO WITH 100/2	a8970.d	I	5.00 ml	16-JAN-2011 13:14	20.000	RJU	4
21101143701	LRNO WITH 100/20	a8971.d	1	5.00 ml	16-JAN-2011 13:37	1 2.000	RJU	5
21101140502	IMS	a8972.d	1	4.91 g	16-JAN-2011 14:01	50.000	RJU	1 5
21101140503	MSD	a8973.d	1	6.03 g	16-JAN-2011 14:25	50.000	RJU	5
BLANK	1	a8974.d	1	5.00 ml	16-JAN-2011 14:49	1.000	RJU	5
21101144101	DILUTED DUE TO NT	a8975.d	1	5.01 g	16-JAN-2011 15:14	10000.000	RJU	ı
21101142402	1	a8976.d	1	5.00 g	16-JAN-2011 15:39	1 1000000.0	00   RJ	U I
21101140504	1	a8977.d	1	5.81 g	16-JAN-2011 16:03	50.000	RJU	5
21101140505	1	a8978.d	1	4.71 g	16-JAN-2011 16:27	1 50.000	RJU	5
21101140510	1	a8979.d	1	5.87 g	16-JAN-2011 16:51	1 50.000	RJU	1 5
21101140512	DILUTED DUE TO MATRIX	a8980.d	l	5.85 g	16-JAN-2011 17:15	50.000	RJU	5
21101140513	I	a8981.d	ı	4.93 g	16-JAN-2011 17:39	1 50.000	RJU	۱ 6
21101140507	1	a8982.d	1 .	4.77 g	16-JAN-2011 18:09	1 100.000	CLH	۱ 6
21101140506	RR, 250X	a8983.d	ı	6.21 g	16-JAN-2011 18:33	1000.000	CLH	6
21101140508	I	a8984.ḍ	1	5.13 g	16-JAN-2011 18:57	10000.000	CLH	1
21101140509	I	a8985.d	1	5.23 g	16-JAN-2011 19:22	1 10000.000	CLH	1
21101140511	I	a8986.d	I	5.71 g	16-JAN-2011 19:46	1 10000.000	CLH	1
BLANK	1	a8987.d	ı	5.00 g	16-JAN-2011 20:10	1.000	I CLH	1 6

Date: 01-JAN-2011	Standard	Conc ppm		
Instrument: msv5.i	BFB IS/SS	50	6-96-6	05/04/11
Analyst(s): JCK	8260 IS/SS	50	6-96-6	05/04/11
_	APP9-2	50	6-97-2	05/12/11
	APP9-1	50	6-97-3	05/16/11
	THF	50	6-97-9	05/19/11
	THF ICV	50	6-93-11	04/06/11
	APP9-2 ICV	50	6-96-8	05/05/11
	APP9-1 ICV	50	6-98-3	02/14/11

Sample ID	Comments	DataFile	Wg	t/Vol	Injectio	n Time	D:	il	Anal	.   .	ALS
I	1	I	1		1		1		1	1	
=======================================									=====	===	====
BLANK	1	k9644.d	1	0.00 ml	01-JAN-2	011 13:18	1	1.000	JCK	1	2
1000	1	k9745.d	1	0.00 ml	07-JAN-2	011 10:24	1	1.000	JCK	1	2
1207	1	k9746.d	1	5.00 ml	07-JAN-2	011 11:14	1 .	1.000	JCK	1	1
1201	I	k9747.d	1	5.00 ml	07-JAN-2	011 11:36	1	1.000	JCK	1	2
1206	RR	k9748.d	1	5.00 ml	07-JAN-2	011 11:58	1	1.000	JCK	1	3
1202	I	k9749.d	1	5.00 ml	07-JAN-2	011 12:21	1	1.000	JCK	1	4
1203	I	k9750.d	1	5.00 ml	07-JAN-2	011 12:43	1	1.000	JCK	1	5
1204	1	k9751.d	1	5.00 ml	07-JAN-2	011 13:06	ı	1.000	JCK	I	6
1205	1	k9752.d	1	5.00 ml	07-JAN-2	011 13:30	1	1.000	JCK	1	7
BLANK	1	k9753.d	1	5.00 ml	07-JAN-2	011 13:53	1	1.000	JCK	1	8
1600	RR	k9754.d	1	5.00 ml	07-JAN-2	011 14:59	ı	1.000	JCK	1	9
1206	I	k9755.d	1	5.00 ml	07-JAN-2	011 15:42	1	1.000	JCK	1	10
1600	I	k9756.d	1	5.00 ml	07-JAN-2	011 16:04	1	1.000	JCK	1	11
1											

TUNE = 01:18

Date: 07-JAN-2011	Standard	Conc ppm		
Instrument: msv5.i	BFB IS/SS	50	6-99-2	05/21/11
Analyst(s): JCK	8260 IS/SS	50	6-99-2	05/21/11
	8260	50	6-100-8	01/17/11
	Ac/Ac	250/50	6-100-7	03/01/11
	CVE	50	6-100-3	06/29/11
	8260 ICV	50	6-99-4	06/22/11
	AC/AC ICV	250/50	6-98-12	01/17/11
	CVE ICV	50	6-89-11	02/11/11

Sample ID	Comments	DataFile	Wo	gt/Vol	Injection Time	D	il	Ana:	L I	ALS
1	1	1	1		1	1		1 .	I	١
1000		k9757.d	 	0.00 ml		 I	1.000	   JCK	-=== 	====  2
1207	8260 ICAL	k9758.d	i	5.00 ml	07-JAN-2011 18:08	i	1.000		i	1
1201	I	k9759.d	ı	5.00 ml	07-JAN-2011 18:30	1	1.000	JCK	1	2
1206	1	k9760.d	1	5.00 ml	07-JAN-2011 18:54	1	1.000	JCK	1	3
1202	1	k9761.d	1	5.00 ml	07-JAN-2011 19:16	1	1.000	JCK	1	4
1203	1	k9762.d	ı	5.00 ml	07-JAN-2011 19:38	1	1.000	JCK	1	5
1 1204	1	k9763.d	1	5.00 ml	07-JAN-2011 20:01	1	1.000	JCK	1	6
1205	1	k9764.d	1	5.00 ml	07-JAN-2011 20:23	1	1.000	JCK	1	7
BLANK	1	k9765.d	1	5.00 ml	07-JAN-2011 20:45	1	1.000	JCK	1	8
1600	1	k9766.d	1.	5.00 ml	07-JAN-2011 21:07	1	1.000	JCK	1	9
1600	NOT USED	k9767.d	1	5.00 ml	07-JAN-2011 21:29	1	1.000	JCK	1	10
BLANK	1	k9768.d	1	5.00 ml	07-JAN-2011 21:52	1	1.000	JCK	1	11
1										

TUNE = 05:02

Date: 18-JAN-2011	Standard	Conc pp	m	
Instrument: msv5.i	BFB IS/SS	50	6-99-2	05/21/11
Analyst(s): CLH	8260 IS/SS	50	6-99-2	05/21/11
	8260	50	6-100-11	01/28/11
	Ac/Ac	250/50	6-100-12	03/16/11
	CVE	50	6-100-3	06/29/11
	APP9-2	50	6-100-9	07/07/11
	APP9-1	50	6-97-3	05/16/11
	THF	50	6-97-9	05/19/11

Sample ID	Comments	DataFile	Wgt/Vol	Injection Time	1	Dil   Ana	1	AL:
!	I	I	1	T. T. T.	ı	. 1	- 1	
1000		k9903bfb.d		 l   18-JAN-2011 12:33	 	1.000   CLH		
1000	1	k9903sbfb.d	0.00 m	1   18-JAN-2011 12:33	1	1.000   CLH	1	2
BLANK	1	k9904.d	1 5.00 m	1   18-JAN-2011 12:56	1	1.000   CLH	1	
1400	1	k9905.d	1 5.00 m	1   18-JAN-2011 13:19	1	1.000   CLH	1	
913709	1.	k9905L.d	5.00 m	1   18-JAN-2011 13:19	1	1.000   CLH	1	
1400	1	k9905s.d	5.00 m	1   18-JAN-2011 13:19	1	1.000   CLH	1	
913706	1	k9905sL.d	1 5.00 g	18-JAN-2011 13:19	1	50.000   CLH	1	
913710	1	k9906.d	1 5.00 m	1   18-JAN-2011 13:42	1	1.000   CLH	1	
913707	1	k9906s.d	5.00 g	18-JAN-2011 13:42	1	50.000   CLH	1	
1400	1	k9907.d	1 5.00 m	1   18-JAN-2011 14:09	ı	1.000   CLH	١	
1400	1	k9907s.d	1 5.00 m	1   18-JAN-2011 14:09	1	1.000   CLH	1	
MB	1	k9908.d	1 5.00 m	1   18-JAN-2011 14:32	- 1	1.000   CLH	1	
913705	1	k9909.d	5.00 g	18-JAN-2011 14:55	ı	50.000   CLH	1	
913708	1	k9910.d	1 5.00 ml	1   18-JAN-2011 15:19	1	1.000   CLH	1	
21101140506	1	k9911.d	1 6.21 g	18-JAN-2011 15:41	1	250.000   CLH	1	
21101140602	1	k9912.d	1 5.00 m	1   18-JAN-2011 16:04	1	40.000   CLH	1	
21101143333	1	k9913.d	5.00 ml	1   18-JAN-2011 16:26	1	1.000   CLH	1	1
21101171601	1	k9914.d	1 5.00 ml	1   18-JAN-2011 16:48	1	20.000   CLH	ı	1
BLANK	1	k9915.d	1 5.00 ml	1   18-JAN-2011 17:11	1	1.000   CLH	ı	1
913803	1	k9916.d	1 5.00 ml	l   18-JAN-2011 17:33	1	40.000   CLH	1	3
913804	1	k9917.d	1 5.00 ml	l   18-JAN-2011 17:56	1	40.000   CLH	1	3
912982	1	k9918.d	[ 5.00 m]	l   18-JAN-2011 18:19	1	40.000   CLH	1	3
21101172801	LRNO WITH FOLLOWING	k9919.d	[ 5.00 m]	1   18-JAN-2011 18:41	1	20.000   CLH	1	1
21101172801	LRNO WITH ABOVE	k9920.d	[ 5.00 m]	l   18-JAN-2011 19:05	1	2.000   CLH	- 1	1
BLANK	I	k9921.d	[ 5.00 m]	l   18-JAN-2011 19:29	- 1	1.000   CLH	- 1	1
BLANK	1 .	k9922.d	[ 5.00 m]	l   18-JAN-2011 19:52	1	1.000   CLH	1	1
21101171501	LRNO WITH k9925	k9923.d	5.00 ml	l   18-JAN-2011 20:14	1	250.000   CLH	1	1
21101171502	LRNO WITH k9926	k9924.d	5.00 m	l   18-JAN-2011 20:37	1	250.000   CLH	1	1
21101171501	LRNO WITH k9923	k9925.d	5.00 ml	l   18-JAN-2011 21:00	ı	10.000   CLH	1	1
21101171502	LRNO WITH k9924	k9926.d	5.00 ml	L   18-JAN-2011 21:22	1	10.000   RJU	1	2
BLANK	1	k9927.d	5.00 ml	L   18-JAN-2011 21:45	i	1.000   RJU	1	
BLANK	1	k9928.d	5.00 ml	L   18-JAN-2011 22:07	i	1.000   RJU	1	2
BLANK	1	k9929.d	5.00 ml	L   18-JAN-2011 22:30	1	1.000   RJU	1	2
21101170304	1	k9930.d	j 5.00 ml	L   18-JAN-2011 22:53	i	1.000   RJU	1	2
21101140601	1	k9931.d	j 5.00 ml	l   18-JAN-2011 23:15	1	40.000   RJU	1	2
21101140603	1	k9932.d	1 5 00 ml	L   18-JAN-2011 23:38		40.000   RJU	1	2

## 1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: T-15-F					
Lab Code: LA0	24 Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 2	110114/e79	80	
Matrix: Solid		Lab Sample ID	: 2110114	0501	
Sample wt/vol:	30.1 Units: g	Date Collected	: 01/13/11	Time:	1400
Level: (low/med)	LOW	Date Received	: 01/14/11		
% Moisture: 16	.2 decanted: (Y/N)	Date Extracted	: 01/14/11		
GC Column: RT	X-5MS-30 ID: .25 (mm)	Date Analyzed	01/14/11	Time:	1656
Concentrated Ext	ract Volume: 1000 ( µL )	Dilution Factor	: 1	Analy	st: KCB
	1.0 (µL)	Prep Method:	3550B		
	/N) N pH:	Analytical Meth	nod: SW-8	46 8270	
		Instrument ID:	MSSV4		
CONCENTRATIO	DN UNITS: mg/kg	Prep Batch:	448916	Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
122-66-7	1,2 Diphenylhydrazine	0.393	U	0.00894	0.393
95-95-4	2,4,5-Trichlorophenol	0.393	U	0.047	0.393
88-06-2	2,4,6-Trichlorophenol	0.393	U	0.062	0.393
120-83-2	2,4-Dichlorophenol	0.393	U	0.063	0.393
105-67-9	2,4-Dimethylphenol	0.393	U	0.050	0.393
51-28-5	2,4-Dinitrophenol	1.96	Ū	0.211	1.96
121-14-2	2,4-Dinitrotoluene	0.393	U	0.055	0.393
606-20-2	2,6-Dinitrotoluene	0.393	U	0.023	0.393
91-58-7	2-Chloronaphthalene	0.393	U	0.021	0.393
95-57-8	2-Chlorophenol	0.393	Ū	0.030	0.393
91-57-6	2-Methylnaphthalene	0.079	Ü	0.021	0.079
88-74-4	2-Nitroaniline	1.96	Ü	0.044	1.96
88-75-5	2-Nitrophenol	0.393	U	0.018	0.393
91-94-1	3,3'-Dichlorobenzidine	0.785	Ü	0.251	0.785
99-09-2	3-Nitroaniline	1.96	Ū	0.048	1.96
534-52-1	2-Methyl-4,6-dinitrophenol	1.96	Ū	0.039	1.96
	4-Bromophenyl-phenylether	0.393	U	0.035	0.393
59-50-7	4-Chloro-3-methylphenol	0.393	U	0.031	0.393
106-47-8	4-Chloroaniline	0.393	U	0.039	0.393
7005-72-3	4-Chlorophenyl-phenylether	0.393	U	0.044	0.393 ౖ
100-01-6	4-Nitroaniline	1.96	U	0.073	1.96
100-02-7	4-Nitrophenol	1.96	U	0.136	1.96
83-32-9	Acenaphthene	0.079	Ü	0.022	0.079
208-96-8	Acenaphthylene	0.079	U	0.013	0.079
98-86-2	Acetophenone	0.393	Ū	0.024	0.393
62-53-3	Aniline	0.393	U	0.021	0.393
120-12-7	Anthracene	0.079	U	0.014	0.079
1912-24-9	Atrazine (Aatrex)	0.785	U	0.058	0.785
100-52-7	Benzaldehyde	0.785	U	0.035	0.785

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Lab Name: GCAL		Sample ID:T-	-15-F		
Lab Code: LA024 Case No.:		Contract:			
SAS No.: SDG No.: 211011405		Lab File ID: 21	110114/e79	80	
Matrix: Solid		Lab Sample ID:	2110114	0501	
Sample wt/vol:	30.1 Units: g	Date Collected:	01/13/11	Time:	1400
Level: (low/med)	LOW	Date Received:	01/14/11		
% Moisture: 16	.2 decanted: (Y/N)	Date Extracted:	01/14/11		
GC Column: RT	TX-5MS-30 ID: .25 (mm)	Date Analyzed:	01/14/11	Time:	1656
Concentrated Ext	ract Volume: 1000 ( µL )	Dilution Factor:	1	Analy	st: KCB
	1.0 (µL)	Prep Method:	3550B		
	7/N) N pH:	Analytical Meth	od: SW-8	46 8270	
		Instrument ID:	MSSV4		
CONCENTRATIO	DN UNITS: mg/kg		***************************************	Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
92-87-5	Benzidine	1.96	U	1.96	1.96
56-55-3	Benzo(a)anthracene	0.079	U	0.017	0.079
50-32-8	Benzo(a)pyrene	0.079	U	0.023	0.079
205-99-2	Benzo(b)fluoranthene	0.393	U	0.012	0.393
191-24-2	Benzo(g,h,i)perylene	0.393	U	0.011	0.393
207-08-9	Benzo(k)fluoranthene	0.393	Ū	0.018	0.393
65-85-0	Benzoic acid	1.96	Ū	0.136	1.96
100-51-6	Benzyl alcohol	0.393	Ū l	0.046	0.393
92-52-4	Biphenyl	0.393	Ū	0.013	0.393
111-91-1	Bis(2-Chloroethoxy)methane	0.393	Ū	0.022	0.393
111-44-4	Bis(2-Chloroethyl)ether	0.393	Ū	0.030	0.393
108-60-1	bis(2-Chloroisopropyl)ether	0.393	Ū	0.020	0.393
117-81-7	bis(2-ethylhexyl)phthalate	0.079	U	0.015	0.079
85-68-7	Butylbenzylphthalate	0.393	U	0.00828	0.393
105-60-2	Caprolactam	0.393	U	0.042	0.393
86-74-8	Carbazole	0.393	U	0.028	0.393
218-01-9	Chrysene	0.393	U	0.013	0.393
84-74-2	Di-n-butylphthalate	0.393	U	0.00948	0.393
117-84-0	Di-n-octylphthalate	0.393	U	0.013	0.393
53-70-3	Dibenz(a,h)anthracene	0.079	U	0.011	0.079
132-64-9	Dibenzofuran	0.393	U	0.014	0.393
84-66-2	Diethylphthalate	0.393	U	0.036	0.393
131-11-3	Dimethyl-phthalate	0.393	U	0.00870	0.393
206-44-0	Fluoranthene	0.017	J	0.00869	0.393
86-73-7	Fluorene	0.079	U	0.012	0.079
118-74-1	Hexachlorobenzene	0.393	U	0.047	0.393
77-47-4	Hexachlorocyclopentadiene	0.393	U	0.059	0.393
67-72-1	Hexachloroethane	0.393	U	0.058	0.393
193-39-5	Indeno(1,2,3-cd)pyrene	0.393	U	0.016	0.393

Lab Name: GC	AL	Sample ID: T-15-F		
Lab Code: LA0	24 Case No.:	Contract:		
SAS No.:	SDG No.: 211011405	Lab File ID: 21101	14/e7980	
Matrix: Solid		Lab Sample ID: 21	101140501	
Sample wt/vol:	30.1 Units: g	Date Collected: 01	/13/11 Time:	1400
Level: (low/med)	LOW	Date Received: 01	/14/11	
% Moisture: 16	decanted: (Y/N)	Date Extracted: 01	/14/11	
GC Column: R1	TX-5MS-30 ID: .25 (mm)	Date Analyzed: 01	/14/11 Time	: 1656
Concentrated Ex	tract Volume: 1000 ( µL )	Dilution Factor: 1	Analy	yst: KCB
Injection Volume	:1.0 ( µL )	Prep Method: 3550	OB ·	
GPC Cleanup: (Y	//N) N pH:	Analytical Method:	SW-846 8270	
		Instrument ID: MSS	SV4	
CONCENTRATIO	ON UNITS: mg/kg	Prep Batch: 44891	6 Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT	MDL	RL
78-59-1	Isophorone	0.393	J 0.013	0.393
98-95-3	Nitrobenzene	0.393	J 0.018	0.393
87-86-5	Pentachlorophenol	1.96	J 0.032	1.96
85-01-8	Phenanthrene	0.079	J 0.016	0.079
108-95-2	Phenol	0.393	J 0.019	0.393
129-00-0	Pyrene	0.393	J 0.055	0.393
110-86-1	Pyridine	0.393	J 0.022	0.393
1319-77-3M	m,p-Cresol	0.393	J 0.069	0.393
621-64-7	N-Nitroso-di-n-propylamine	0.079	J 0.020	0.079
62-75-9	N-Nitrosodimethylamine	0.393	J 0.020	0.393
86-30-6	N-Nitrosodiphenylamine	0.393	J 0.012	0.393
95-48-7	o-Cresol	0.393	J 0.012	0.393

Lab Name: GCAL		Sample ID: T-15-F MS			
Lab Code: LA0	Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 2110114/e79	81		
Matrix: Solid		Lab Sample ID: 2110114	0502		
Sample wt/vol:	30 Units: g	Date Collected: 01/13/11	Time:	1400	
Level: (low/med)	LOW	Date Received: 01/14/11			
% Moisture: 16	.2 decanted: (Y/N)	Date Extracted: 01/14/11			
GC Column: RT	TX-5MS-30 ID: .25 (mm)	Date Analyzed: 01/14/11	Time:	1713	
Concentrated Ext	tract Volume: 1000 ( µL )	Dilution Factor: 1	Analy	st: KCB	
	1.0 ( µL )	Prep Method: 3550B			
	7/N) N pH:	Analytical Method: SW-8	346 8270		
Instrument ID: MSSV4					
CONCENTRATIO	ON UNITS: mg/kg	Prep Batch: 448916	Analytical Ba	tch: 448983	
CAS NO.	COMPOUND	RESULT	MDL	RL	
122-66-7	1,2 Diphenylhydrazine	3.52	0.00897	0.394	
95-95-4	2,4,5-Trichlorophenol	3.19	0.047	0.394	
88-06-2	2,4,6-Trichlorophenol	2.96	0.062	0.394	
120-83-2	2,4-Dichlorophenol	2.96	0.063	0.394	
105-67-9	2,4-Dimethylphenol	3.04	0.050	0.394	
51-28-5	2,4-Dinitrophenol	2.52	0.211	1.97	
121-14-2	2,4-Dinitrotoluene	3.27	0.056	0.394	
606-20-2	2,6-Dinitrotoluene	3.47	0.023	0.394	
91-58-7	2-Chloronaphthalene	3.57	0.021	0.394	
95-57-8	2-Chlorophenol	2.97	0.030	0.394	
91-57-6	2-Methylnaphthalene	3.21	0.021	0.079	
88-74-4	2-Nitroaniline	3.25	0.044	1.97	
88-75-5	2-Nitrophenol	3.28	0.018	0.394	
91-94-1	3,3'-Dichlorobenzidine	2.85	0.252	0.788	
99-09-2	3-Nitroaniline	2.33	0.048	1.97	
534-52-1	2-Methyl-4,6-dinitrophenol	2.94	0.039	1.97	
101-55-3	4-Bromophenyl-phenylether	3.89	0.035	0.394	
59-50-7	4-Chloro-3-methylphenol	2.83	0.031	, 0.394	
106-47-8	4-Chloroaniline	1.83	0.039	0.394	
7005-72-3	4-Chlorophenyl-phenylether	3.47	0.044	0.394	
100-01-6	4-Nitroaniline	2.89	0.074	1.97	
100-02-7	4-Nitrophenol	2.81	0.136	1.97	
83-32-9	Acenaphthene	3.67	0.022	0.079	
208-96-8	Acenaphthylene	4.19	0.013	0.079	
98-86-2	Acetophenone	3.26	0.024	0.394	
62-53-3	Aniline	2.78	0.021	0.394	
120-12-7	Anthracene	3.90	0.014	0.079	
1912-24-9	Atrazine (Aatrex)	5.17	0.058	0.788	
100-52-7	Benzaldehyde	0.334 J	0.035	0.788	

FORM I SV-1

Lab Name: GCAL			Sample ID: T-15-F MS			
Lab Code: LA024 Case No.:			Contract:			
SAS No.:	SDG No.: 21101	1405	Lab File ID: 2	110114/e7981		
Matrix: Solid			Lab Sample ID	: 2110114050	2	
Sample wt/vol: 30	Units: g		Date Collected	: 01/13/11	Time:	1400
Level: (low/med) LOW	<b>V</b>		Date Received:	01/14/11		
% Moisture: 16.2	decanted: (Y/N)		Date Extracted	: 01/14/11		
GC Column: RTX-5MS	3-30 ID: .25	(mm)	Date Analyzed:	01/14/11	Time:	1713
Concentrated Extract Vo	olume: 1000	( µL )	Dilution Factor:	1	Analys	st: KCB
	1.0	`	Prep Method:	3550B	~~~~	
	N pH:		Analytical Meth	od: SW-846 8	3270	
9000	· · · · · · · · · · · · · · · · · · ·		Instrument ID:	MSSV4		
CONCENTRATION UNI	TS: mg/kg		Prep Batch: 4	***************************************	Analytical Bat	ch: 448983
CAS NO. COMP	POUND		RESULT		MDL	RL
56-55-3 Benzo	(a)anthracene		3.74		0.017	0.079
50-32-8 Benzo	(a)pyrene		4.04		0.023	0.079
205-99-2 Benzo	(b)fluoranthene		3.55		0.012	0.394
	(g,h,i)perylene		3.32		0.011	0.394
	(k)fluoranthene		3.61		0.018	0.394
	ic acid		2.23		0.136	1.97
	l alcohol		3.21		0.046	0.394
92-52-4 Bipher			3.22		0.013	0.394
	Chloroethoxy)methane		3.49	<del></del>	0.022	0.394
<u> </u>	Chloroethyl)ether		3.39		0.030	0.394
,	Chloroisopropyl)ether	,	3.28		0.020	0.394
	ethylhexyl)phthalate		3.52		0.015	0.079
	enzylphthalate		3.67		0.00831	0.394
	lactam		3.12		0.042	0.394
86-74-8 Carba			3.39		0.028	0.394
218-01-9 Chryse			3.57		0.013	0.394
	utylphthalate		3.78		0.00952	0.394
	ctylphthalate		3.57		0.013	0.394
	z(a,h)anthracene		3.32		0.011	0.079
	zofuran		3.32		0.014	0.394
	lphthalate		3.61		0.036	0.394
	hyl-phthalate		3.62		0.00873	0.394
	nthene	<del></del>	3.83		0.00872	0.394
86-73-7 Fluore			3.61		0.012	0.079
	hlorobenzene		3.45		0.047	0.394
	hlorocyclopentadiene		4.18		0.059	0.394
	hloroethane		2.94		0.059	0.394
	o(1,2,3-cd)pyrene		3.32		0.016	0.394
78-59-1 Isopho			3.43	<del></del>	0.013	0.394

FORM I SV-1

Lab Name: G	GCAL	Sample ID: T-15-F MS		
Lab Code: LA	A024 Case No.:	Contract:		
SAS No.:	SDG No.: 211011405	Lab File ID: 2110114/e7	981	
Matrix: Solid		Lab Sample ID: 211011	40502	
Sample wt/vol:	30 Units: g	Date Collected: 01/13/1	1 Time:	1400
Level: (low/med	d) LOW	Date Received: 01/14/1	1	
% Moisture:	16.2 decanted: (Y/N)	Date Extracted: 01/14/1	1	
GC Column:	RTX-5MS-30 ID: .25 (mm)	Date Analyzed: 01/14/1	1 Time	1713
Concentrated E	Extract Volume: 1000 ( µL )	Dilution Factor: 1	Analy	rst: KCB
	ne: 1.0 ( µL )	Prep Method: 3550B		
	(Y/N) N pH:	Analytical Method: SW-	-846 8270	
·		Instrument ID: MSSV4		
CONCENTRAT	TION UNITS: mg/kg	Prep Batch: 448916	Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT	MDL	RL
98-95-3	Nitrobenzene	3.34	0.018	0.394
87-86-5	Pentachlorophenol	2.60	0.032	1.97
85-01-8	Phenanthrene	3.67	0.016	0.079
108-95-2	Phenol	2.95	0.019	0.394
129-00-0	Pyrene	3.90	0.055	0.394
110-86-1	Pyridine	2.24	0.022	0.394
1319-77-3M	m,p-Cresol	2.87	0.069	0.394
621-64-7	N-Nitroso-di-n-propylamine	3.43	0.020	0.079
62-75-9	N-Nitrosodimethylamine	3.18	0.020	0.394
86-30-6	N-Nitrosodiphenylamine	3.88	0.013	0.394
95-48-7	o-Cresol	2.95	0.012	0.394

Lab Name: GCAL		Sample ID: T-15-F MSD			
Lab Code: LA0	24 Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 2110114/e7	982	***************************************	
Matrix: Solid		Lab Sample ID: 2110114	40503		
Sample wt/vol:	30 Units: g	Date Collected: 01/13/1	1 Time:	1400	
Level: (low/med)	LOW	Date Received: 01/14/1	1		
% Moisture: 16	.2 decanted: (Y/N)	Date Extracted: 01/14/1	1		
GC Column: RT	X-5MS-30 ID: .25 (mm)	Date Analyzed: 01/14/1	1 Time:	1729	
Concentrated Ext	ract Volume: 1000 ( µL )	Dilution Factor: 1	Analy	st: KCB	
	1.0 ( µL )	Prep Method: 3550B			
	/N) N pH:	Analytical Method: SW-	846 8270		
Or O Olcanup. (1	, , , , , , , , , , , , , , , , , , ,	Instrument ID: MSSV4			
CONCENTRATIO	ON UNITS: mg/kg	Prep Batch: 448916	Analytical Ba	tch: 448983	
CAS NO.	COMPOUND	RESULT	<b>MDL</b>	RL	
122-66-7	1,2 Diphenylhydrazine	3.19	0.00897	0.394	
95-95-4	2,4,5-Trichlorophenol	2.93	0.047	0.394	
88-06-2	2,4,6-Trichlorophenol	2.63	0.062	0.394	
120-83-2	2,4-Dichlorophenol	2.83	0.063	0.394	
105-67-9	2,4-Dimethylphenol	2.84	0.050	0.394	
51-28-5	2,4-Dinitrophenol	2.16	0.211	1.97	
121-14-2	2,4-Dinitrotoluene	3.06	0.056	0.394	
606-20-2	2,6-Dinitrotoluene	3.19	0.023	0.394	
91-58-7	2-Chloronaphthalene	3.13	0.021	0.394	
95-57-8	2-Chlorophenol	2.81	0.030	0.394	
91-57-6	2-Methylnaphthalene	3.01	0.021	0.079	
88-74-4	2-Nitroaniline	2.91	0.044	1.97	
88-75-5	2-Nitrophenol	3.04	0.018	0.394	
91-94-1	3,3'-Dichlorobenzidine	2.53	0.252	0.788	
99-09-2	3-Nitroaniline	2.08	0.048	1.97	
534-52-1	2-Methyl-4,6-dinitrophenol	2.45	0.039	1.97	
101-55-3	4-Bromophenyl-phenylether	3.49	0.035	0.394	
59-50-7	4-Chloro-3-methylphenol	2.83	0.031	0.394	
106-47-8	4-Chloroaniline	1.73	0.039	0.394	
7005-72-3	4-Chlorophenyl-phenylether	3.15	0.044	0.394	
100-01-6	4-Nitroaniline	2.66	0.074	1.97	
100-02-7	4-Nitrophenol	2.61	0.136	1.97	
83-32-9	Acenaphthene	3.26	0.022	0.079	
208-96-8	Acenaphthylene	3.73	0.013	0.079	
98-86-2	Acetophenone	3.09	0.024	0.394	
62-53-3	Aniline	2.70	0.021	0.394	
120-12-7	Anthracene	3.51	0.014	0.079	
1912-24-9	Atrazine (Aatrex)	4.68	0.058	0.788	
100-52-7	Benzaldehyde	0.412 J	0.035	0.788	

FORM I SV-1

Lab Name: GC	AL	Sample ID: T-15-F MSE	)
Lab Code: LA0	24 Case No.:	Contract:	
SAS No.:	SDG No.: 211011405	Lab File ID: 2110114/e7	982
Matrix: Solid		Lab Sample ID: 211011	40503
Sample wt/vol:	30 Units: g	Date Collected: 01/13/1	1 Time: 1400
Level: (low/med)	LOW	Date Received: 01/14/1	1
% Moisture: 16	decanted: (Y/N)	Date Extracted: 01/14/1	1
GC Column: R1	TX-5MS-30 ID: .25 (mm)	Date Analyzed: 01/14/1	1 Time: 1729
Concentrated Ext	tract Volume: 1000 ( µL )	Dilution Factor: 1	Analyst: KCB
	: 1.0 ( µL )	Prep Method: 3550B	
	′/N) N pH:	Analytical Method: SW-	-846 8270
. ,	, , , , , , , , , , , , , , , , , , ,	Instrument ID: MSSV4	
CONCENTRATIO	ON UNITS: mg/kg	Prep Batch: 448916	Analytical Batch: 448983
CAS NO.	COMPOUND	RESULT	MDL RL
56-55-3	Benzo(a)anthracene	3.32	0.017 0.079
50-32-8	Benzo(a)pyrene	3.44	0.023 0.079
205-99-2	Benzo(b)fluoranthene	2.82	0.012 0.394
191-24-2	Benzo(g,h,i)perylene	2.73	0.011 0.394
207-08-9	Benzo(k)fluoranthene	3.62	0.018 0.394
65-85-0	Benzoic acid	1.87 J	0.136 1.97
100-51-6	Benzyl alcohol	3.12	0.046 0.394
92-52-4	Biphenyl	3.10	0.013 0.394
111-91-1	Bis(2-Chloroethoxy)methane	3.30	0.022 0.394
111-44-4	Bis(2-Chloroethyl)ether	3.22	0.030 0.394
108-60-1	bis(2-Chloroisopropyl)ether	3.16	0.020 0.394
117-81-7	bis(2-ethylhexyl)phthalate	3.40	0.015 0.079
85-68-7	Butylbenzylphthalate	3.59	0.00831 0.394
105-60-2	Caprolactam	3.21	0.042 0.394
86-74-8	Carbazole	2.98	0.028 0.394
218-01-9	Chrysene	3.38	0.013 0.394
84-74-2	Di-n-butylphthalate	3.40	0.00952 0.394
117-84-0	Di-n-octylphthalate	3.30	0.013 0.394
53-70-3	Dibenz(a,h)anthracene	2.85	0.011 0.079
132-64-9	Dibenzofuran	2.98	0.014 0.394
84-66-2	Diethylphthalate	3.32	0.036 0.394
131-11-3	Dimethyl-phthalate	3.31	0.00873 0.394
206-44-0	Fluoranthene	3.28	0.00872 0.394
86-73-7	Fluorene	3.20	0.012 0.079
118-74-1	Hexachlorobenzene	3.03	0.047 0.394
77-47-4	Hexachlorocyclopentadiene	3.40	0.059 0.394
67-72-1	Hexachloroethane	2.84	0.059 0.394
193-39-5	Indeno(1,2,3-cd)pyrene	2.61	0.016 0.394
78-59-1	Isophorone	3 26	0.013 0.394

Lab Name: GC	:AL	Sample ID: T-15-F MSI	)	
Lab Code: LA0	24 Case No.:	Contract:		
SAS No.:	SDG No.: 211011405	Lab File ID: 2110114/e7	7982	
Matrix: Solid		Lab Sample ID: 211011	40503	
Sample wt/vol:	30 Units: g	Date Collected: 01/13/1	1 Time:	1400
Level: (low/med)	LOW	Date Received: 01/14/1	1	
% Moisture: 16	6.2 decanted: (Y/N)	Date Extracted: 01/14/1	1	
GC Column: R1	TX-5MS-30 ID: .25 (mm)	Date Analyzed: 01/14/1	1 Time	1729
Concentrated Ex	tract Volume: 1000 ( µL )	Dilution Factor: 1	Analy	st: KCB
Injection Volume	: ( µL )	Prep Method: 3550B		
GPC Cleanup: (Y	//N) N pH:	Analytical Method: SW	-846 8270	
		Instrument ID: MSSV4		
CONCENTRATIO	ON UNITS: mg/kg	Prep Batch: 448916	Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT	MDL	RL
98-95-3	Nitrobenzene	3.08	0.018	0.394
87-86-5	Pentachlorophenol	2.39	0.032	1.97
85-01-8	Phenanthrene	3.32	0.016	0.079
108-95-2	Phenol	2.76	0.019	0.394
129-00-0	Pyrene	3.98	0.055	0.394
110-86-1	Pyridine	2.45	0.022	0.394
1319-77-3M	m,p-Cresol	2.77	0.069	0.394
621-64-7	N-Nitroso-di-n-propylamine	3.25	0.020	0.079
62-75-9	N-Nitrosodimethylamine	2.90	0.020	0.394
86-30-6	N-Nitrosodiphenylamine	3.53	0.013	0.394
	14-14tt 030dipricitylariline	0.00		

Lab Name: GCAL			Sample ID: T-21-F			
Lab Code: LA024 Case No.:		Contract:				
SAS No.:	SDG No.: 2110	11405	Lab File ID: 2	110114/e79	83	***************************************
Matrix: Solid			Lab Sample ID	2110114	0504	
Sample wt/vol:	30 Units: g		Date Collected	: 01/13/11	Time:	1445
Level: (low/med)	LOW		Date Received	: 01/14/11		
% Moisture: 16	decanted: (Y/N)		Date Extracted	l: <u>01/14/11</u>		
GC Column: R1	ΓX-5MS-30 ID: .25	(mm)	Date Analyzed	: 01/14/11	Time:	1746
Concentrated Ex	tract Volume: 1000	( µL )	Dilution Factor	: 1	Analy	st: KCB
	: 1.0		Prep Method:	3550B		
	//N) N pH:		Analytical Meth	nod: SW-8	46 8270	
	·		Instrument ID:	MSSV4		
CONCENTRATIO	ON UNITS: mg/kg		Prep Batch:	448916	Analytical Ba	tch: 448983
CAS NO.	COMPOUND		RESULT	-	MDL	RL
122-66-7	1,2 Diphenylhydrazine		0.396	U	0.00901	0.396
95-95-4	2,4,5-Trichlorophenol		0.396	U	0.047	0.396
88-06-2	2,4,6-Trichlorophenol		0.396	U	0.062	0.396
120-83-2	2,4-Dichlorophenol		0.396	U	0.064	0.396
105-67-9	2,4-Dimethylphenol		0.396	U	0.050	0.396
51-28-5	2,4-Dinitrophenol		1.98	U	0.212	1.98
121-14-2	2,4-Dinitrotoluene		0.396	U	0.056	0.396
606-20-2	2,6-Dinitrotoluene		0.396	U	0.023	0.396
91-58-7	2-Chloronaphthalene		0.396	U	0.021	0.396
95-57-8	2-Chlorophenol		0.396	U	0.030	0.396
91-57-6	2-Methylnaphthalene		0.128		0.021	0.079
88-74-4	2-Nitroaniline		1.98	U	0.045	1.98
88-75-5	2-Nitrophenol		0.396	U	0.018	0.396
91-94-1	3,3'-Dichlorobenzidine		0.792	U	0.253	0.792
99-09-2	3-Nitroaniline		1.98	U	0.048	1.98
534-52-1	2-Methyl-4,6-dinitrophenol		1.98	U	0.039	1.98
101-55-3	4-Bromophenyl-phenylether		0.396	U	0.035	0.396
59-50-7	4-Chloro-3-methylphenol		0.396	U	0.031	0.396
106-47-8	4-Chloroaniline		0.396	U	0.039	0.396
7005-72-3	4-Chlorophenyl-phenylether		0.396	U	0.044	0.396
100-01-6	4-Nitroaniline		1.98	U	0.074	1.98
100-02-7	4-Nitrophenol		1.98	U	0.137	1.98
83-32-9	Acenaphthene		0.142		0.022	0.079
208-96-8	Acenaphthylene		0.045	J	0.013	0.079
98-86-2	Acetophenone		0.396	U	0.025	0.396
62-53-3	Aniline		0.396	U	0.021	0.396
120-12-7	Anthracene		0.257		0.014	0.079
1912-24-9	Atrazine (Aatrex)		0.792	U	0.059	0.792
100-52-7	Benzaldehyde	······································	0.792	U	0.036	0.792

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Lab Name: GC	AL	Sample ID: T-21-F			
Lab Code: LA0	Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 2	110114/e79	83	
Matrix: Solid		Lab Sample ID	: 2110114	0504	
Sample wt/vol:	30 Units: g	Date Collected	: 01/13/11	Time:	1445
	LOW	Date Received			
	.7 decanted: (Y/N)	Date Extracted	: 01/14/11		
	X-5MS-30 ID: .25 (mm)		***************************************	Time:	1746
	ract Volume: 1000 (µL)			Analy	
	1.0 (µL)	Prep Method:			
		Analytical Meth	***************************************	46 8270	
GPC Cleanup: (Y	/N) N pH:	•		-10 027 0	
CONCENTRATIO	DN UNITS: mg/kg	Instrument ID:			
	· ·	Prep Batch:	448916	Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
92-87-5	Benzidine	1.98	U	1.98	1.98
56-55-3	Benzo(a)anthracene	0.275		0.017	0.079
50-32-8	Benzo(a)pyrene	0.188		0.023	0.079
205-99-2	Benzo(b)fluoranthene	0.295	J	0.012	0.396
191-24-2	Benzo(g,h,i)perylene	0.236	J	0.011	0.396
207-08-9	Benzo(k)fluoranthene	0.079	J	0.018	0.396
65-85-0	Benzoic acid	1.98	U	0.137	1.98
100-51-6	Benzyl alcohol	0.396	U	0.046	0.396
92-52-4	Biphenyl	0.062	J	0.013	0.396
111-91-1	Bis(2-Chloroethoxy)methane	0.396	U	0.022	0.396
111-44-4	Bis(2-Chloroethyl)ether	0.396	U	0.030	0.396
108-60-1	bis(2-Chloroisopropyl)ether	0.396	U	0.020	0.396
117-81-7	bis(2-ethylhexyl)phthalate	0.275		0.015	0.079
85-68-7	Butylbenzylphthalate	0.396	U	0.00835	0.396
86-74-8	Carbazole	0.396	U	0.028	0.396
218-01-9	Chrysene	0.377	J	0.013	0.396
	Di-n-butylphthalate	0.396	· U	0.00956	0.396
117-84-0	Di-n-octylphthalate	0.396	U	0.013	0.396
53-70-3	Dibenz(a,h)anthracene	0.079	U	0.011	0.079
132-64-9	Dibenzofuran	0.396	U	0.014	0.396
84-66-2	Diethylphthalate	0.396	U	0.037	0.396
131-11-3	Dimethyl-phthalate	0.396	U	0.00877	0.396
206-44-0	Fluoranthene	0.352	J	0.00876	0.396
86-73-7	Fluorene	0.160		0.012	0.079
118-74-1	Hexachlorobenzene	0.396	Ų	0.047	0.396
77-47-4	Hexachlorocyclopentadiene	0.396	Ū	0.059	0.396
67-72-1	Hexachloroethane	0.396	U	0.059	0.396
193-39-5	Indeno(1,2,3-cd)pyrene	0.257	J	0.016	0.396
78-59-1	Isophorone	0.396	Ü	0.013	0.396

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Lab Name:G	SCAL	Sample ID: T-2	21-F		
Lab Code: LA	A024 Case No.:	Contract:	•		
SAS No.:	SDG No.: 211011405	Lab File ID: 21	10114/e79	83	***************************************
Matrix: Solid		Lab Sample ID:	2110114	0504	
Sample wt/vol:	30 Units: g	Date Collected:	01/13/11	Time:	1445
Level: (low/med	d) LOW	Date Received:	01/14/11		
	16.7 decanted: (Y/N)	Date Extracted:	01/14/11		
	RTX-5MS-30 ID: .25 (mm)	Date Analyzed:	01/14/11	Time:	1746
Concentrated E	Extract Volume: 1000 (µL)	Dilution Factor:	1	Analy	st: KCB
	ne: 1.0 ( µL )	Prep Method:	3550B		
	(Y/N) N pH:	Analytical Metho	d: SW-8	46 8270	
	, , , , , , , , , , , , , , , , , , ,	Instrument ID:	MSSV4		
CONCENTRAT	TION UNITS: mg/kg	Prep Batch: 44	18916	Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
98-95-3	Nitrobenzene	0.396	U	0.018	0.396
87-86-5	Pentachlorophenol	1.98	U	0.032	1.98
85-01-8	Phenanthrene	1.18		0.016	0.079
108-95-2	Phenol	0.396	U	0.019	0.396
129-00-0	Pyrene	0.832		0.056	0.396
110-86-1	Pyridine	0.396	U	0.022	0.396
1319-77-3M	m,p-Cresol	0.396	U	0.070	0.396
621-64-7	N-Nitroso-di-n-propylamine	0.079	U	0.020	0.079
62-75-9	N-Nitrosodimethylamine	0.396	U	0.020	0.396
86-30-6	N-Nitrosodiphenylamine	0.396	U	0.013	0.396
95-48-7	o-Cresol	0.396	U	0.012	0.396

Lab Name: GCAL	Sample ID: T-21-F
Lab Code: LA024 Case No.:	Contract:
SAS No.: SDG No.: 211011405	Lab File ID: 2110117/e8009
Matrix: Solid	Lab Sample ID: 21101140504
Sample wt/vol: 30 Units: g	Date Collected: 01/13/11 Time: 1445
Level: (low/med) LOW	Date Received: 01/14/11
% Moisture: 16.7 decanted: (Y/N)	Date Extracted: 01/14/11
GC Column: RTX-5MS-30 ID: .25 (mm)	Date Analyzed: 01/17/11 Time: 0856
Concentrated Extract Volume: 1000 ( µL )	Dilution Factor: 10 Analyst: KCB
Injection Volume: 1.0 ( µL )	Prep Method: 3550B
GPC Cleanup: (Y/N) N pH:	Analytical Method: SW-846 8270
	Instrument ID: MSSV4
CONCENTRATION UNITS: mg/kg	Prep Batch: 448916 Analytical Batch: 449083
CAS NO. COMPOUND	RESULT MDL RL
105-60-2 Caprolactam	27.5 0.420 3.96

Lab Name: GC	AL	Sample ID: N	IC-0-0.3		
Lab Code: LA0	24 Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 2	110114/e79	84	
Matrix: Solid		Lab Sample ID	: 2110114	0505	
Sample wt/vol:	30.2 Units: g	Date Collected	: 01/13/11	Time:	1455
Level: (low/med)	LOW	Date Received:	01/14/11		
% Moisture: 17	.1 decanted: (Y/N)	Date Extracted	: 01/14/11		
GC Column: RT	X-5MS-30 ID: .25 (mm)	Date Analyzed:	01/14/11	Time:	1803
Concentrated Ext	ract Volume: 1000 ( µL )	Dilution Factor:	1	Analy	st: KCB
	1.0 (μL)	Prep Method:	3550B		
	/N) N pH:	Analytical Meth	od: SW-8	46 8270	
		Instrument ID:	MSSV4		
CONCENTRATIO	DN UNITS: mg/kg	Prep Batch: 4	448916	Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT	***************************************	MDL	RL
122-66-7	1,2 Diphenylhydrazine	0.395	U	0.00900	0.395
95-95-4	2,4,5-Trichlorophenol	0.395	U	0.047	0.395
88-06-2	2,4,6-Trichlorophenol	0.395	U	0.062	0.395
120-83-2	2,4-Dichlorophenol	0.395	U	0.064	0.395
105-67-9	2,4-Dimethylphenol	0.395	U	0.050	0.395
51-28-5	2,4-Dinitrophenol	1.98	U	0.212	1.98
121-14-2	2,4-Dinitrotoluene	0.395	U	0.056	0.395
606-20-2	2,6-Dinitrotoluene	0.395	U	0.023	0.395
91-58-7	2-Chloronaphthalene	0.395	U	0.021	0.395
95-57-8	2-Chlorophenol	0.395	U	0.030	0.395
91-57-6	2-Methylnaphthalene	0.145		0.021	0.079
88-74-4	2-Nitroaniline	1.98	U	0.044	1.98
88-75-5	2-Nitrophenol	0.395	U	0.018	0.395
91-94-1	3,3'-Dichlorobenzidine	0.791	U	0.253	0.791
99-09-2	3-Nitroaniline	1.98	U	0.048	1.98
534-52-1	2-Methyl-4,6-dinitrophenol	1.98	U	0.039	1.98
101-55-3	4-Bromophenyl-phenylether	0.395	U	0.035	0.395
59-50-7	4-Chloro-3-methylphenol	0.395	Ų	0.031	0.395
106-47-8	4-Chloroaniline	0.395	U	0.039	0.395
7005-72-3	4-Chlorophenyl-phenylether	0.395	U	0.044	0.395
100-01-6	4-Nitroaniline	1.98	U	0.074	1.98
100-02-7	4-Nitrophenol	1.98	U	0.137	1.98
83-32-9	Acenaphthene	0.069	J	0.022	0.079
208-96-8	Acenaphthylene	0.058	J	0.013	0.079
98-86-2	Acetophenone	0.068	J	0.025	0.395
62-53-3	Aniline	0.395	U	0.021	0.395
120-12-7	Anthracene	0.113		0.014	0.079
1912-24-9	Atrazine (Aatrex)	0.791	U	0.058	0.791
100-52-7	Benzaldehyde	0.791	U	0.035	0.791

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Lab Name: GC	AL	Sample ID: No	C-0-0.3		
Lab Code: LA0	24 Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 21	I10114/e7984		
Matrix: Solid		Lab Sample ID:	211011405	05	
Sample wt/vol:	30.2 Units: g	Date Collected:	01/13/11	Time:	1455
	LOW	Date Received:			
	.1 decanted: (Y/N)	Date Extracted:	01/14/11		
	"X-5MS-30 ID: .25 (mm)	Date Analyzed:	01/14/11	Time:	1803
***************************************	tract Volume: 1000 ( µL )	Dilution Factor:	1	Analy	st: KCB
	1.0 (µL)	Prep Method:	3550B		
	//N) N pH:	Analytical Metho	od: SW-846	8270	
Cr O Clounup. (1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Instrument ID:	MSSV4		
CONCENTRATIO	ON UNITS: mg/kg	,	***************************************	Analytical Day	1-h. 440002
04840	COMPOUND	Prep Batch: 4	40910	Analytical Bat	
	COMPOUND	RESULT		MDL	RL
92-87-5	Benzidine #	1.98	U	1.98	1.98
56-55-3	Benzo(a)anthracene	0.217		0.017	0.079
50-32-8	Benzo(a)pyrene	0.162		0.023	0.079
205-99-2	Benzo(b)fluoranthene	0.346	J	0.012	0.395
191-24-2	Benzo(g,h,i)perylene	0.286	J	0.011	0.395
207-08-9	Benzo(k)fluoranthene	0.074	J	0.018	0.395
65-85-0	Benzoic acid	1.98	U	0.137	1.98
100-51-6	Benzyl alcohol	0.395	U	0.046	0.395
92-52-4	Biphenyl	0.058	J	0.013	0.395
111-91-1	Bis(2-Chloroethoxy)methane	0.395	U	0.022	0.395
111-44-4	Bis(2-Chloroethyl)ether	0.395	U	0.030	0.395
108-60-1	bis(2-Chloroisopropyl)ether	0.395	U	0.020	0.395
117-81-7	bis(2-ethylhexyl)phthalate	0.501		0.015	0.079
85-68-7	Butylbenzylphthalate	0.395	U	0.00834	0.395
105-60-2	Caprolactam	0.395	U	0.042	0.395
86-74-8	Carbazole	0.395	U T	0.028	0.395
218-01-9	Chrysene	0.215	J	0.013	0.395
84-74-2	Di-n-butylphthalate	0.395	U	0.00955	0.395
117-84-0	Di-n-octylphthalate	0.395	U	0.013	0.395
53-70-3	Dibenz(a,h)anthracene	0.079	U T	0.011	0.079
132-64-9	Dibenzofuran	0.395	<del>-</del> Ū	0.014	0.395
84-66-2	Diethylphthalate	0.395	Ü	0.037	0.395
131-11-3	Dimethyl-phthalate	0.395	<del>- Ü</del>	0.00876	0.395
206-44-0	Fluoranthene	0.420		0.00875	0.395
86-73-7	Fluorene	0.115		0.012	0.079
118-74-1	Hexachlorobenzene	0.395	U	0.047	0.395
77-47-4	Hexachlorocyclopentadiene	0.395	U	0.059	0.395
67-72-1	Hexachloroethane	0.395	U	0.059	0.395
193-39-5	Indeno(1,2,3-cd)pyrene	0.393	J	0.039	0.395

Lab Name: GC	CAL	Sample ID: NC	2-0-0.3		
Lab Code: LAC	Case No.:	Contract:			
SAS No.:	SDG No.: 211011405				
Matrix: Solid		Lab Sample ID:	2110114	0505	
Sample wt/vol:	30.2 Units: g	Date Collected:	01/13/11	Time:	1455
Level: (low/med)	LOW	Date Received:	01/14/11		
% Moisture: 17	7.1 decanted: (Y/N)	Date Extracted:	01/14/11		
GC Column: R	TX-5MS-30 ID: .25 (mm)	Date Analyzed:	01/14/11	Time:	1803
Concentrated Ex	ctract Volume: 1000 ( µL )	Dilution Factor:	1	Analy	st: KCB
Injection Volume	e: 1.0 (µL)	Prep Method:	3550B		
	Y/N) N pH:	Analytical Metho	d: SW-8	46 8270	
	>	Instrument ID:	MSSV4		
CONCENTRATI	ON UNITS: mg/kg	Prep Batch: 44	18916	Analytical Bat	tch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
78-59-1	Isophorone	0.395	U	0.013	0.395
98-95-3	Nitrobenzene	0.395	U	0.018	0.395
87-86-5	Pentachlorophenol	1.98	U	0.032	1.98
85-01-8	Phenanthrene	0.493		0.016	0.079
108-95-2	Phenol	0.395	U	0.019	0.395
129-00-0	Pyrene	0.380	J	0.055	0.395
110-86-1	Pyridine	0.395	U	0.022	0.395
1319-77-3M	m,p-Cresol	0.395	U	0.070	0.395
621-64-7	N-Nitroso-di-n-propylamine	0.079	U	0.020	0.079
62-75-9	N-Nitrosodimethylamine	0.395	U	0.020	0.395
86-30-6	N-Nitrosodiphenylamine	0.395	U	0.013	0.395
95-48-7	o-Cresol	0.395	U	0.012	0.395

Lab Name: GC	CAL	Sample ID: T-2-WEST		
Lab Code: LAC	O24 Case No.:	Contract:		
SAS No.:	SDG No.: 211011405	Lab File ID: 2110114/e798		
Matrix: Solid		Lab Sample ID: 21101140	)506	
Sample wt/vol:	30 Units: g	Date Collected: 01/13/11	Time: 150	05
	LOW	Date Received: 01/14/11		
	0.1 decanted: (Y/N)	Date Extracted: 01/14/11		
	TX-5MS-30 ID: .25 (mm)	Date Analyzed: 01/14/11	Time: 18	319
	ctract Volume: 1000 ( µL )	Dilution Factor: 1	Analyst:	КСВ
	e: 1.0 (µL)	Prep Method: 3550B		
	Y/N) N pH:	Analytical Method: SW-84	46 8270	
		Instrument ID: MSSV4		
CONCENTRATI	ON UNITS: mg/kg	Prep Batch: 448916	Analytical Batch:	448983
CAS NO.	COMPOUND	RESULT	MDL	RL
122-66-7	1,2 Diphenylhydrazine	0.413 U	0.00939	0.413
95-95-4	2,4,5-Trichlorophenol	0.413 U	0.049	0.413
88-06-2	2,4,6-Trichlorophenol	0.413 U	0.065	0.413
120-83-2	2,4-Dichlorophenol	0.413 U	0.066	0.413
105-67-9	2,4-Dimethylphenol	0.413 U	0.053	0.413
51-28-5	2,4-Dinitrophenol	2.06 U	0.221	2.06
121-14-2	2,4-Dinitrotoluene	0.413 U	0.058	0.413
606-20-2	2,6-Dinitrotoluene	0.413 U	0.024	0.413
91-58-7	2-Chloronaphthalene	0.413 U	0.022	0.413
95-57-8	2-Chlorophenol	0.413 U	0.032	0.413
91-57-6	2-Methylnaphthalene	0.083 U	0.022	0.083
88-74-4	2-Nitroaniline	2.06 U	0.046	2.06
88-75-5	2-Nitrophenol	0.413 U	0.019	0.413
91-94-1	3,3'-Dichlorobenzidine	0.826 U	0.264	0.826
99-09-2	3-Nitroaniline	2.06 U	0.050	2.06
534-52-1	2-Methyl-4,6-dinitrophenol	2.06 U	0.041	2.06
101-55-3	4-Bromophenyl-phenylether	0.413 U	0.036	0.413
59-50-7	4-Chloro-3-methylphenol	0.413 U	0.033	0.413
106-47-8	4-Chloroaniline	0.413 U	0.041	0.413
7005-72-3	4-Chlorophenyl-phenylether	0.413 U	0.046	0.413
100-01-6	4-Nitroaniline	2.06 U	0.077	2.06
100-02-7	4-Nitrophenol	2.06 U	0.143	2.06
83-32-9	Acenaphthene	0.083 U	0.023	0.083
208-96-8	Acenaphthylene	0.083 U	0.014	0.083
98-86-2	Acetophenone	0.413 U	0.026	0.413
62-53-3	Aniline	0.413 U	0.022	0.413
120-12-7	Anthracene	0.083 U	0.015	0.083
1912-24-9	Atrazine (Aatrex)	0.826 U	0.061	0.826
100-52-7	Benzaldehyde	0.826 U	0.037	0.826

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Lab Name: GC	AL	Sample ID: T-2-WEST		
Lab Code: LA0	24 Case No.:	Contract:		
SAS No.:	SDG No.: 211011405	Lab File ID: 2110114/e7	7985	
Matrix: Solid		Lab Sample ID: 211011	140506	
Sample wt/vol:	30 Units: g	Date Collected: 01/13/1	I1 Time:	1505
Level: (low/med)	LOW	Date Received: 01/14/1	11	
% Moisture: 20	.1 decanted: (Y/N)	Date Extracted: 01/14/1	11	
GC Column: RT	"X-5MS-30 ID: .25 (mm)	Date Analyzed: 01/14/1	I1 Time	: 1819
Concentrated Ext	ract Volume: 1000 (μL)	Dilution Factor: 1	Analy	st: KCB
*	1.0 ( µL )	Prep Method: 3550B		
	7/N) N pH:	Analytical Method: SW	-846 8270	
	y	Instrument ID: MSSV4		
CONCENTRATIO	DN UNITS: mg/kg	Prep Batch: 448916	Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT	MDL	RL
92-87-5	Benzidine	2.06 U	2.06	2.06
56-55-3	Benzo(a)anthracene	0.083 U	0.018	0.083
50-32-8	Benzo(a)pyrene	0.083 U	0.024	0.083
205-99-2	Benzo(b)fluoranthene	0.413 U	0.013	0.413
191-24-2	Benzo(g,h,i)perylene	0.413 U	0.011	0.413
207-08-9	Benzo(k)fluoranthene	0.413 U	0.019	0.413
65-85-0	Benzoic acid	2.06 U	0.143	2.06
100-51-6	Benzyl alcohol	0.413 U	0.048	0.413
92-52-4	Biphenyl	0.029 J	0.014	0.413
111-91-1	Bis(2-Chloroethoxy)methane	0.413 U	0.023	0.413
111-44-4	Bis(2-Chloroethyl)ether	0.413 U	0.031	0.413
108-60-1	bis(2-Chloroisopropyl)ether	0.413 U	0.021	0.413
117-81-7	bis(2-ethylhexyl)phthalate	0.112	0.016	0.083
85-68-7	Butylbenzylphthalate	0.413 U	0.00871	0.413
105-60-2	Caprolactam	0.413 U	0.044	0.413
86-74-8	Carbazole	0.413 U	0.030	0.413
218-01-9	Chrysene	0.413 U	0.014	0.413
84-74-2	Di-n-butylphthalate	0.015 J	0.00997	0.413
117-84-0	Di-n-octylphthalate	0.413 U	0.014	0.413
53-70-3	Dibenz(a,h)anthracene	0.083 U	0.011	0.083
132-64-9	Dibenzofuran	0.413 U	0.014	0.413
84-66-2	Diethylphthalate	0.413 U	0.038	0.413
131-11-3	Dimethyl-phthalate	0.413 U	0.00914	0.413
206-44-0	Fluoranthene	0.413 U	0.00913	0.413
86-73-7	Fluorene	0.020 J	0.013	0.083
118-74-1	Hexachlorobenzene	0.413 U	0.049	0.413
77-47-4	Hexachlorocyclopentadiene	0.413 U	0.062	0.413
67-72-1	Hexachloroethane	0.413 U	0.061	0.413
193-39-5	Indeno(1.2.3-cd)pyrene	0.413 U	0.017	0.413

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Lab Name: GC	AL	Sample ID: T-2-WES	ST	
Lab Code: LA0	24 Case No.:	Contract:		
SAS No.:	SDG No.: 211011405	Lab File ID: 2110114	/e7985	
Matrix: Solid		Lab Sample ID: 2110	01140506	
Sample wt/vol:	30 Units: g	Date Collected: 01/1	3/11 Time:	1505
Level: (low/med)	LOW	Date Received: 01/1	4/11	
% Moisture: 20	.1 decanted: (Y/N)	Date Extracted: 01/1	4/11	
GC Column: R1	TX-5MS-30 ID: .25 (mm)	Date Analyzed: 01/1	4/11 Time	: 1819
Concentrated Ext	tract Volume: 1000 ( µL )	Dilution Factor: 1	Analy	/st: KCB
Injection Volume	:	Prep Method: 3550E	3	
GPC Cleanup: (Y	//N) N pH:	Analytical Method:	SW-846 8270	
		Instrument ID: MSS\	<b>/4</b>	
CONCENTRATIO	ON UNITS: mg/kg	Prep Batch: 448916	Analytical Ba	atch: 448983
CAS NO.	COMPOUND	RESULT	MDL	RL
78-59-1	Isophorone	0.413 U	0.014	0.413
98-95-3	Nitrobenzene	0.413 U	0.019	0.413
87-86-5	Pentachlorophenol	2.06 U	0.034	2.06
85-01-8	Phenanthrene	0.024 J	0.017	0.083
108-95-2	Phenol	0.413 U	0.020	0.413
129-00-0	Pyrene	0.413 U	0.058	0.413
110-86-1	Pyridine	0.413 U	0.023	0.413
1319-77-3M	m,p-Cresol	0.413 U	0.073	0.413
621-64-7	N-Nitroso-di-n-propylamine	0.083 U	0.021	0.083
62-75-9	N-Nitrosodimethylamine	0.413 U	0.021	0.413
86-30-6	N-Nitrosodiphenylamine	0.413 U	0.013	0.413
95-48-7	o-Cresol	0.413 U	0.013	0.413

Lab Name: GC	AL	Sample ID: T	-6-FLOOR		
Lab Code: LA0	24 Case No.:	Contract:	·····		
SAS No.:	SDG No.: 211011405	Lab File ID: 2	110114/e79	86	
Matrix: Solid		Lab Sample ID	2110114	0507	
Sample wt/vol:	30.1 Units: g	Date Collected	01/13/11	Time:	1535
Level: (low/med)	LOW	Date Received:	01/14/11		
% Moisture: 26	.0 decanted: (Y/N)	Date Extracted	01/14/11		
GC Column: RT	X-5MS-30 ID: .25 (mm)	Date Analyzed:	01/14/11	Time:	1836
Concentrated Ext	ract Volume: 1000 ( µL )	Dilution Factor:	1	Analy	st: KCB
	1.0 ( µL )	Prep Method:	3550B		
GPC Cleanup: (Y	/N) N pH:	Analytical Meth	od: SW-8	46 8270	
		Instrument ID:	MSSV4		
CONCENTRATIO	DN UNITS: mg/kg		***************************************	Analytical Bat	ch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
122-66-7	1,2 Diphenylhydrazine	0.445	U	0.010	0.445
95-95-4	2,4,5-Trichlorophenol	0.445	U	0.053	0.445
88-06-2	2,4,6-Trichlorophenol	0.445	U	0.070	0.445
120-83-2	2,4-Dichlorophenol	0.445	U	0.072	0.445
105-67-9	2,4-Dimethylphenol	0.445	U	0.057	0.445
51-28-5	2,4-Dinitrophenol	2.22	U	0.238	2.22
121-14-2	2,4-Dinitrotoluene	0.445	U	0.063	0.445
606-20-2	2,6-Dinitrotoluene	0.445	U	0.026	0.445
91-58-7	2-Chloronaphthalene	0.445	U	0.024	0.445
95-57-8	2-Chlorophenol	0.445	U	0.034	0.445
91-57-6	2-Methylnaphthalene	0.089	U	0.024	0.089
88-74-4	2-Nitroaniline	2.22	U	0.050	2.22
88-75-5	2-Nitrophenol	0.445	U	0.020	0.445
91-94-1	3,3'-Dichlorobenzidine	0.889	U	0.284	0.889
99-09-2	3-Nitroaniline	2.22	U	0.054	2.22
534-52-1	2-Methyl-4,6-dinitrophenol	2.22	U	0.044	2.22
101-55-3	4-Bromophenyl-phenylether	0.445	U	0.039	0.445
59-50-7	4-Chloro-3-methylphenol	0.445	Ú	0.035	0.445
106-47-8	4-Chloroaniline	0.445	U	0.044	0.445
7005-72-3	4-Chlorophenyl-phenylether	0.445	Ų	0.049	0.445
100-01-6	4-Nitroaniline	2.22	U	0.083	2.22
100-02-7	4-Nitrophenol	2.22	U	0.154	2.22
83-32-9	Acenaphthene	0.089	U	0.025	0.089
208-96-8	Acenaphthylene	0.089	U	0.015	0.089
98-86-2	Acetophenone	0.046	J	0.028	0.445
62-53-3	Aniline	0.445	U	0.024	0.445
120-12-7	Anthracene	0.089	U	0.016	0.089
1912-24-9	Atrazine (Aatrex)	0.889	U	0.066	0.889
100-52-7	Benzaldehyde	0.889	U	0.040	0.889

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Lab Name: GC	AL	Sample ID: T-6	6-FLOOR		
Lab Code: LA024 Case No.: Contract:					
SAS No.:	SDG No.: 211011405	Lab File ID: 21	10114/e79	86	
Matrix: Solid		Lab Sample ID:	2110114	0507	
Sample wt/vol:	30.1 Units: g	Date Collected:	01/13/11	Time:	1535
Level: (low/med)	LOW	Date Received:	01/14/11		
% Moisture: 26	decanted: (Y/N)	Date Extracted:	01/14/11		
GC Column: R1	TX-5MS-30 ID: .25 (mm)	Date Analyzed:	01/14/11	Time:	1836
Concentrated Ex	tract Volume: 1000 ( µL )	Dilution Factor:	1	Analy	st: KCB
	: 1.0 (µL)	Prep Method:	3550B		
	′/N) N pH:	Analytical Metho	d: SW-8	46 8270	
	, , , , , , , , , , , , , , , , , , ,	Instrument ID:	MSSV4		
CONCENTRATIO	ON UNITS: mg/kg	Prep Batch: 44		Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
92-87-5	Benzidine	2.22	U	2.22	2.22
56-55-3	Benzo(a)anthracene	0.089	U	0.019	0.089
50-32-8	Benzo(a)pyrene	0.089	U	0.026	0.089
205-99-2	Benzo(b)fluoranthene	0.445	U	0.014	0.445
191-24-2	Benzo(g,h,i)perylene	0.445	Ū	0.012	0.445
207-08-9	Benzo(k)fluoranthene	0.445	Ū	0.020	0.445
65-85-0	Benzoic acid	2.22	Ū	0.154	2.22
100-51-6	Benzyl alcohol	0.445	Ū	0.052	0.445
92-52-4	Biphenyl	0.445	Ū	0.015	0.445
111-91-1	Bis(2-Chloroethoxy)methane	0.445	Ū	0.025	0.445
111-44-4	Bis(2-Chloroethyl)ether	0.445	Ū	0.034	0.445
108-60-1	bis(2-Chloroisopropyl)ether	0.445	Ū	0.023	0.445
117-81-7	bis(2-ethylhexyl)phthalate	0.089	Ū	0.017	0.089
85-68-7	Butylbenzylphthalate	0.445	Ū	0.00938	0.445
105-60-2	Caprolactam	0.445	Ū	0.047	0.445
86-74-8	Carbazole	0.445	Ū	0.032	0.445
218-01-9	Chrysene	0.445	Ū	0.015	0.445
84-74-2	Di-n-butylphthalate	0.013	J	0.011	0.445
117-84-0	Di-n-octylphthalate	0.445	U	0.015	0.445
53-70-3	Dibenz(a,h)anthracene	0.089	U	0.012	0.089
132-64-9	Dibenzofuran	0.445	U	0.015	0.445
84-66-2	Diethylphthalate	0.445	U	0.041	0.445
131-11-3	Dimethyl-phthalate	0.445	Ū	0.00985	0.445
206-44-0	Fluoranthene	0.445	Ū	0.00984	0.445
86-73-7	Fluorene	0.089	Ū	0.014	0.089
118-74-1	Hexachlorobenzene	0.445	Ū	0.053	0.445
77-47-4	Hexachlorocyclopentadiene	0.445	Ū	0.066	0.445
67-72-1	Hexachloroethane	0.445	Ū	0.066	0.445
193-39-5	Indeno(1.2.3-cd)pyrene	0.445	Ū	0.018	0.445

Lab Name: GC	AL	Sample ID: T-6-FLOC	R	
Lab Code: LAC	Case No.:	Contract:		
SAS No.:	SDG No.: 211011405	Lab File ID: 2110114/6	<b>∍</b> 7986	
Matrix: Solid		Lab Sample ID: 21101	1140507	
Sample wt/vol:	30.1 Units: g	Date Collected: 01/13	/11 Time:	1535
Level: (low/med)	LOW	Date Received: 01/14	/11	
% Moisture: 26	3.0 decanted: (Y/N)	Date Extracted: 01/14	/11	
GC Column: R	TX-5MS-30 ID: .25 (mm)	Date Analyzed: 01/14	/11 Time	: 1836
Concentrated Ex	tract Volume: 1000 ( µL )	Dilution Factor: 1	Anal	yst: KCB
	: ( µL )	Prep Method: 3550B		-
GPC Cleanup: (\	//N) N pH:	Analytical Method: SV	N-846 8270	
		Instrument ID: MSSV4		
CONCENTRATION	ON UNITS: mg/kg	Prep Batch: 448916	Analytical Ba	atch: 448983
CAS NO.	COMPOUND	RESULT	MDL	RL
78-59-1	Isophorone	0.445 U	0.015	0.445
98-95-3	Nitrobenzene	0.445 U	0.021	0.445
87-86-5	Pentachlorophenol	2.22 U	0.036	2.22
85-01-8	Phenanthrene	0.089 U	0.018	0.089
108-95-2	Phenol	0.445 U	0.022	0.445
129-00-0	Pyrene	0.445 U	0.062	0.445
110-86-1	Pyridine	0.445 U	0.025	0.445
1319-77-3M	m,p-Cresol	0.445 U	0.078	0.445
621-64-7	N-Nitroso-di-n-propylamine	0.089 U .	0.023	0.089
62-75-9	N-Nitrosodimethylamine	0.445 U	0.023	0.445
86-30-6	N-Nitrosodiphenylamine	0.445 U	0.014	0.445
95-48-7	o-Cresol	0.445 U	0.014	0.445

Lab Name: GC	AL	Sample ID: T-	6-EAST		
Lab Code: LA0	Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 21	10114/e798	7	•
Matrix: Solid		Lab Sample ID:	21101140	508	
Sample wt/vol:	30 Units: g	Date Collected:	01/13/11	Time:	1555
	LOW	Date Received:	01/14/11		
	.5 decanted: (Y/N)	Date Extracted:	01/14/11		
GC Column: RT	X-5MS-30 ID: .25 (mm	Date Analyzed:	01/14/11	Time:	1853
Concentrated Ext	ract Volume: 1000 (μL	) Dilution Factor:	1	Analy	st: KCB
	1.0 ( µL		3550B		
	//N) N pH:		od: SW-84	6 8270	
,	<u> </u>	Instrument ID:	MSSV4		
CONCENTRATIO	DN UNITS: mg/kg	Prep Batch: 4		Analytical Bat	tch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
122-66-7	1,2 Diphenylhydrazine	0.449	U T	0.010	0.449
95-95-4	2,4,5-Trichlorophenol	0.449	U	0.054	0.449
88-06-2	2,4,6-Trichlorophenol	0.449	U	0.070	0.449
120-83-2	2,4-Dichlorophenol	0.449	Ü	0.072	0.449
105-67-9	2,4-Dimethylphenol	0.449	<del>u</del>	0.057	0.449
51-28-5	2,4-Dinitrophenol	2.24	<del>u</del> l	0.241	2.24
121-14-2	2,4-Dinitrotoluene	0.449	<del>- i -  </del>	0.063	0.449
606-20-2	2,6-Dinitrotoluene	0.449	<del>- i - l</del>	0.027	0.449
91-58-7	2-Chloronaphthalene	0.449	<del>u</del> l	0.024	0.449
95-57-8	2-Chlorophenol	0.449	<del>u</del> l	0.035	0.449
91-57-6	2-Methylnaphthalene	1.29		0.024	0.090
88-74-4	2-Nitroaniline	2.24	<del>- u  </del>	0.050	2.24
88-75-5	2-Nitrophenol	0.449	<del>- i</del> +	0.021	0.449
91-94-1	3,3'-Dichlorobenzidine	0.898	U	0.287	0.898
99-09-2	3-Nitroaniline	2.24	Ü	0.055	2.24
534-52-1	2-Methyl-4,6-dinitrophenol	2.24	Ū	0.044	2.24
	4-Bromophenyl-phenylether	0.449	U	0.040	0.449
59-50-7	4-Chloro-3-methylphenol	0.449	U	0.035	0.449
106-47-8	4-Chloroaniline	0.449	U T	0.045	0.449
7005-72-3	4-Chlorophenyl-phenylether	0.449	U T	0.050	0.449
100-01-6	4-Nitroaniline	2.24	U	0.084	2.24
100-02-7	4-Nitrophenol	2.24	U	0.155	2.24
83-32-9	Acenaphthene	0.233		0.025	0.090
208-96-8	Acenaphthylene	0.574		0.015	0.090
98-86-2	Acetophenone	0.951		0.028	0.449
62-53-3	Aniline	0.449	U	0.024	0.449
120-12-7	Anthracene	0.072	J	0.016	0.090
1912-24-9	Atrazine (Aatrex)	0.898	U	0.066	0.898
100-52-7	Benzaldehyde	0.898	U	0.040	0.898

FORM I SV-1

Lab Name: GC	<b>AL</b>	Sample ID: T	-6-EAST		
Lab Code: LA0	24 Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 2	110114/e79	87	
Matrix: Solid		Lab Sample ID	: 2110114	0508	
Sample wt/vol:	30 Units: g	Date Collected	: 01/13/11	Time:	1555
Level: (low/med)	LOW	Date Received	: 01/14/11		
% Moisture: 26	.5 decanted: (Y/N)	Date Extracted	: 01/14/11		
GC Column: R1	TX-5MS-30 ID: <u>.25</u> (mm)	Date Analyzed	01/14/11	Time:	1853
Concentrated Ex	tract Volume: 1000 ( µL )	Dilution Factor:	1	Analy	st: KCB
Injection Volume	: 1.0 (μL)	Prep Method:	3550B		
	//N) N pH:	Analytical Meth	nod: SW-8	46 8270	
	***************************************	Instrument ID:	MSSV4		
CONCENTRATIO	ON UNITS: mg/kg	Prep Batch:	***************************************	Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
92-87-5	Benzidine	2.24	U	2.24	2.24
56-55-3	Benzo(a)anthracene	0.090	U	0.019	0.090
50-32-8	Benzo(a)pyrene	0.090	U	0.026	0.090
205-99-2	Benzo(b)fluoranthene	0.449	U	0.014	0.449
191-24-2	Benzo(g,h,i)perylene	0.449	U	0.012	0.449
207-08-9	Benzo(k)fluoranthene	0.449	U	0.021	0.449
65-85-0	Benzoic acid	2.24	U	0.155	2.24
100-51-6	Benzyl alcohol	0.449	U	0.052	0.449
92-52-4	Biphenyl	0.435	J	0.015	0.449
111-91-1	Bis(2-Chloroethoxy)methane	0.449	· U	0.025	0.449
111-44-4	Bis(2-Chloroethyl)ether	0.449	· U	0.034	0.449
108-60-1	bis(2-Chloroisopropyl)ether	0.449	U	0.023	0.449
117-81-7	bis(2-ethylhexyl)phthalate	0.090	U	0.017	0.090
85-68-7	Butylbenzylphthalate	0.449	U	0.00947	0.449
105-60-2	Caprolactam	0.449	U	0.048	0.449
86-74-8	Carbazole	0.449	U	0.032	0.449
218-01-9	Chrysene	0.449	U	0.015	0.449
84-74-2	Di-n-butylphthalate	0.449	U	0.011	0.449
117-84-0	Di-n-octylphthalate	0.449	U	0.015	0.449
53-70-3	Dibenz(a,h)anthracene	0.090	U	0.012	0.090
132-64-9	Dibenzofuran	0.449	U	0.016	0.449
84-66-2	Diethylphthalate	0.449	U	0.041	0.449
131-11-3	Dimethyl-phthalate	0.449	U	0.00994	0.449
206-44-0	Fluoranthene	0.040	J	0.00993	0.449
86-73-7	Fluorene	0.268		0.014	0.090
118-74-1	Hexachlorobenzene	0.449	U	0.054	0.449
77-47-4	Hexachlorocyclopentadiene	0.449	U	0.067	0.449
67-72-1	Hexachloroethane	0.449	U	0.067	0.449
193-39-5	Indeno(1.2.3-cd)pyrene	0.449	U	0.018	0.449

FORM I SV-1

Lab Name: GC	AL	Sample ID: T-6-EAS	Т	
Lab Code: LA0	24 Case No.:	Contract:		
SAS No.:	SDG No.: 211011405	Lab File ID: 2110114		
Matrix: Solid		Lab Sample ID: 2110	01140508	
Sample wt/vol:	30 Units: g	Date Collected: 01/1	3/11 Time:	1555
Level: (low/med)	LOW	Date Received: 01/1	4/11	
% Moisture: 26	.5 decanted: (Y/N)	Date Extracted: 01/1	4/11	
GC Column: R1	TX-5MS-30 ID: .25 (mm)	Date Analyzed: 01/1	4/11 Time	: 1853
Concentrated Ex	tract Volume: 1000 ( µL )	Dilution Factor: 1	Analy	/st: KCB
Injection Volume	: ( µL )	Prep Method: 3550E	3	
	//N) <u>N</u> pH:	Analytical Method:	SW-846 8270	
		Instrument ID: MSSV	/4	
CONCENTRATIO	ON UNITS: mg/kg	Prep Batch: 448916	Analytical Ba	itch: 448983
CAS NO.	COMPOUND	RESULT	MDL	RL
78-59-1	Isophorone	0.449 U	0.015	0.449
98-95-3	Nitrobenzene	0.449 U	0.021	0.449
87-86-5	Pentachlorophenol	2.24 U	0.037	2.24
85-01-8	Phenanthrene	0.290	0.018	0.090
108-95-2	Phenol	0.449 U	0.022	0.449
129-00-0	Pyrene	0.063 J	0.063	0.449
110-86-1	Pyridine	0.449 U	0.025	0.449
1319-77-3M	m,p-Cresol	0.174 J	0.079	0.449
621-64-7	N-Nitroso-di-n-propylamine	0.090 U	0.023	0.090
62-75-9	N-Nitrosodimethylamine	0.449 U	0.023	0.449
86-30-6	N-Nitrosodiphenylamine	0.449 U	0.014	0.449
95-48-7	o-Cresol	0.156 J	0.014	0.449

Lab Name: GC	AL		Sample ID:	Γ-6-SOUTH		
Lab Code: LA0	Case No.:		Contract:			
SAS No.:	SDG No.: 21101	1405	Lab File ID: _2	2110114/e79	88	
Matrix: Solid			Lab Sample ID	): <u>2110114</u>	0509	
Sample wt/vol:	30.4 Units: g		Date Collected	I: 01/13/11	Time:	1615
Level: (low/med)	LOW		Date Received	l: 01/14/11		
% Moisture: 26	.1 decanted: (Y/N)		Date Extracted	i: 01/14/11		
GC Column: RT	TX-5MS-30 ID: .25	(mm)	Date Analyzed	: 01/14/11	Time:	1909
Concentrated Ext	tract Volume: 1000	( µL )	Dilution Factor	: 1	Analy	st: KCB
Injection Volume:	1.0	( µL )	Prep Method:	3550B		
	//N) N pH:		Analytical Met	hod: SW-8	46 8270	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Instrument ID:	MSSV4		
CONCENTRATIO	ON UNITS: mg/kg		Prep Batch:	448916	Analytical Ba	tch: 448983
CAS NO.	COMPOUND		RESULT		MDL	RL
122-66-7	1,2 Diphenylhydrazine		0.441	U	0.010	0.441
95-95-4	2,4,5-Trichlorophenol		0.441	U	0.053	0.441
88-06-2	2,4,6-Trichlorophenol		0.441	U	0.069	0.441
120-83-2	2,4-Dichlorophenol		0.441	U	0.071	0.441
105-67-9	2,4-Dimethylphenol		0.441	U	0.056	0.441
51-28-5	2,4-Dinitrophenol		2.20	U	0.236	2.20
121-14-2	2,4-Dinitrotoluene		0.441	U	0.062	0.441
606-20-2	2,6-Dinitrotoluene		0.441	U	0.026	0.441
91-58-7	2-Chloronaphthalene		0.441	U	0.024	0.441
95-57-8	2-Chlorophenol		0.441	U	0.034	0.441
91-57-6	2-Methylnaphthalene		0.550		0.024	0.088
88-74-4	2-Nitroaniline		2.20	U	0.050	2.20
88-75-5	2-Nitrophenol		0.441	U	0.020	0.441
91-94-1	3,3'-Dichlorobenzidine		0.882	U	0.282	0.882
99-09-2	3-Nitroaniline		2.20	U	0.054	2.20
534-52-1	2-Methyl-4,6-dinitrophenol		2.20	U	0.043	2.20
101-55-3	4-Bromophenyl-phenylether		0.441	U	0.039	0.441
59-50-7	4-Chloro-3-methylphenol		0.441	U	0.035	0.441
106-47-8	4-Chloroaniline		0.441	U	0.044	0.441
7005-72-3	4-Chlorophenyl-phenylether		0.441	U	0.049	0.441
100-01-6	4-Nitroaniline		2.20	U	0.082	2.20
100-02-7	4-Nitrophenol		2.20	Ų	0.152	2.20
83-32-9	Acenaphthene		0.084	J	0.025	0.088
208-96-8	Acenaphthylene		0.037	J	0.015	0.088
98-86-2	Acetophenone		0.487		0.027	0.441
62-53-3	Aniline		0.441	U	0.024	0.441
120-12-7	Anthracene		0.088	U	0.015	0.088
1912-24-9	Atrazine (Aatrex)		0.882	U	0.065	0.882
100-52-7	Benzaldehyde		0.882	U	0.040	0.882

FORM I SV-1

Lab Name: GC	AL	Sample ID: T-6	S-SOUTH		
Lab Code: LA02	24 Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 211	10114/e798	38	
Matrix: Solid		Lab Sample ID:	21101140	)509	
Sample wt/vol:	30.4 Units: g	Date Collected:	01/13/11	Time:	1615
Level: (low/med)	LOW	Date Received:	01/14/11		
% Moisture: 26	.1 decanted: (Y/N)	Date Extracted:	01/14/11		
GC Column: RT	X-5MS-30 ID: .25 (mm)	Date Analyzed:	01/14/11	Time:	1909
Concentrated Ext	ract Volume: 1000 ( µL )	Dilution Factor:	1	Analy	st: KCB
	1.0 ( µL )	Prep Method:	3550B		
	/N) N pH:	Analytical Method	d: SW-8	46 8270	
	***************************************	Instrument ID:	MSSV4		
CONCENTRATIO	DN UNITS: mg/kg	Prep Batch: 44	8916	Analytical Bat	ch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
92-87-5	Benzidine	2.20	U	2.20	2.20
56-55-3	Benzo(a)anthracene	0.088	U	0.019	0.088
50-32-8	Benzo(a)pyrene	0.088	U	0.025	0.088
205-99-2	Benzo(b)fluoranthene	0.441	U	0.014	0.441
191-24-2	Benzo(g,h,i)perylene	0.441	U I	0.012	0.441
207-08-9	Benzo(k)fluoranthene	0.441	U	0.020	0.441
65-85-0	Benzoic acid	2.20	U	0.152	2.20
100-51-6	Benzyl alcohol	0.441	U	0.051	0.441
92-52-4	Biphenyl	0.180	J	0.015	0.441
111-91-1	Bis(2-Chloroethoxy)methane	0.441	U	0.024	0.441
111-44-4	Bis(2-Chloroethyl)ether	0.441	U	0.033	0.441
108-60-1	bis(2-Chloroisopropyl)ether	0.441	U	0.023	0.441
117-81-7	bis(2-ethylhexyl)phthalate	0.088	U	0.017	0.088
85-68-7	Butylbenzylphthalate	0.441	U	0.00930	0.441
105-60-2	Caprolactam	0.441	U	0.047	0.441
86-74-8	Carbazole	0.441	U	0.032	0.441
218-01-9	Chrysene	0.441	U	0.015	0.441
84-74-2	Di-n-butylphthalate	0.017	J	0.011	0.441
117-84-0	Di-n-octylphthalate	0.441	U	0.014	0.441
53-70-3	Dibenz(a,h)anthracene	0.088	U	0.012	0.088
132-64-9	Dibenzofuran	0.441	U	0.015	0.441
84-66-2	Diethylphthalate	0.441	U	0.041	0.441
131-11-3	Dimethyl-phthalate	0.441	U	0.00976	0.441
206-44-0	Fluoranthene	0.048	J	0.00975	0.441
86-73-7	Fluorene	0.106		0.013	0.088
118-74-1	Hexachlorobenzene	0.441	U	0.053	0.441
77-47-4	Hexachlorocyclopentadiene	0.441	U	0.066	0.441
67-72-1	Hexachloroethane	0.441	U	0.065	0.441
193-39-5	Indeno(1,2,3-cd)pyrene	0.441	U	0.018	0.441

FORM I SV-1

Lab Name: GC	AL	Sample ID: T	-6-SOUTH		
Lab Code: LA0	24 Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 2	110114/e79	88	
Matrix: Solid		Lab Sample ID	: 2110114	0509	
Sample wt/vol:	30.4 Units: g	Date Collected	: 01/13/11	Time:	1615
Level: (low/med)	LOW	Date Received	: 01/14/11		
% Moisture: 26	.1 decanted: (Y/N)	Date Extracted	: 01/14/11		
GC Column: R1	TX-5MS-30 ID: .25 (mm)	Date Analyzed	01/14/11	Time:	1909
Concentrated Ex	tract Volume: 1000 ( µL )	Dilution Factor	1	Analy	st: KCB
	:1.0 ( µL )	Prep Method:	3550B		
GPC Cleanup: (Y	//N) <u>N</u> pH:	Analytical Meth	nod: SW-8	346 8270	
		Instrument ID:	MSSV4		
CONCENTRATIO	ON UNITS: mg/kg	Prep Batch:	448916	Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
78-59-1	Isophorone	0.441	U	0.014	0.441
98-95-3	Nitrobenzene	0.441	U	0.020	0.441
87-86-5	Pentachlorophenol	2.20	Ų	0.036	2.20
85-01-8	Phenanthrene	0.129		0.018	0.088
108-95-2	Phenol	0.441	U	0.021	0.441
129-00-0	Pyrene	0.441	U	0.062	0.441
110-86-1	Pyridine	0.441	U	0.025	0.441
1319-77-3M	m,p-Cresol	0.118	J	0.078	0.441
621-64-7	N-Nitroso-di-n-propylamine	0.088	U	0.022	0.088
62-75-9	N-Nitrosodimethylamine	0.441	U	0.023	0.441
86-30-6	N-Nitrosodiphenylamine	0.441	U	0.014	0.441
95-48-7	o-Cresol	0.097	J	0.013	0.441

Lab Name: GC	AL	Sample I	D: T-6-NORTH		
Lab Code: LA0	24 Case No.:	Contract	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
SAS No.:	SDG No.: 211011405	Lab File	ID: 2110114/e79	89	
Matrix: Solid		Lab Sam	ple ID: 2110114	0510	
Sample wt/vol:	30.2 Units: g	Date Col	lected: 01/13/11	Time:	1625
Level: (low/med)	LOW	Date Red	ceived: 01/14/11		
% Moisture: 22	.5 decanted: (Y/N)	Date Ext	racted: 01/14/11		
GC Column: RT	TX-5MS-30 ID: .25 (m	m) Date Ana	alyzed: 01/14/11	Time:	1926
	ract Volume: 1000 ( μ	Dilution I	Factor: 1	Analy	st: KCB
	1.0 ( µ		thod: 3550B		
	//N) N pH:		al Method: SW-8	46 8270	
or o clounup. (1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		nt ID: MSSV4		
CONCENTRATIO	ON UNITS: mg/kg		ch: 448916	Analytical Ba	rch: 448983
CAS NO.	COMPOUND	RESUL		MDL	RL
122-66-7	1,2 Diphenylhydrazine	0.423	U	0.00962	0.423
95-95-4	2,4,5-Trichlorophenol	0.423	U	0.050	0.423
88-06-2	2,4,6-Trichlorophenol	0.423	U	0.066	0.423
120-83-2	2,4-Dichlorophenol	0.423	U	0.068	0.423
105-67-9	2,4-Dimethylphenol	0.423		0.054	0.423
51-28-5	2,4-Dinitrophenol	2.11	U	0.227	2.11
121-14-2	2,4-Dinitrotoluene	0.423	U	0.060	0.423
606-20-2	2,6-Dinitrotoluene	0.423	U	0.025	0.423
91-58-7	2-Chloronaphthalene	0.423	U	0.023	0.423
95-57-8	2-Chlorophenol	0.423	U	0.033	0.423
91-57-6	2-Methylnaphthalene	0.085	U	0.023	0.085
88-74-4	2-Nitroaniline	2.11	U	0.048	2.11
88-75-5	2-Nitrophenol	0.423	U	0.019	0.423
91-94-1	3,3'-Dichlorobenzidine	0.846	U	0.270	0.846
99-09-2	3-Nitroaniline	2.11	U	0.052	2.11
534-52-1	2-Methyl-4,6-dinitrophenol	2.11	U	0.042	2.11
101-55-3	4-Bromophenyl-phenylether	0.423	U	0.037	0.423
59-50-7	4-Chloro-3-methylphenol	0.423	U	0.033	0.423
106-47-8	4-Chloroaniline	0.423	U	0.042	0.423
7005-72-3	4-Chlorophenyl-phenylether	0.423	U	0.047	0.423
100-01-6	4-Nitroaniline	2.11	U	0.079	2.11
100-02-7	4-Nitrophenol	2.11	U	0.146	2.11
83-32-9	Acenaphthene	0.085	U	0.024	0.085
208-96-8	Acenaphthylene	0.040	J	0.014	0.085
98-86-2	Acetophenone	0.423	U	0.026	0.423
62-53-3	Aniline	0.423	· · · · · · · · · · · · · · · · · · ·	0.023	0.423
120-12-7	Anthracene	0.085	U	0.015	0.085
1912-24-9	Atrazine (Aatrex)	0.846	U	0.063	0.846
100-52-7	Benzaldehyde	0.846	U	0.038	0.846

FORM I SV-1

Lab Name: GC	AL	Sample ID: T	-6-NORTH		
Lab Code: LA0	24 Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 2	110114/e79	89	
Matrix: Solid		Lab Sample ID	: 2110114	0510	
Sample wt/vol:	30.2 Units: g	Date Collected	: 01/13/11	Time:	1625
Level: (low/med)	LOW	Date Received	: 01/14/11		
% Moisture: 22	.5 decanted: (Y/N)	Date Extracted	: 01/14/11		
GC Column: R1	TX-5MS-30 ID: .25 (mm)	Date Analyzed:	01/14/11	Time:	1926
Concentrated Ext	tract Volume: 1000 ( µL )	Dilution Factor:	1	Analy	st: KCB
	: 1.0 (μL)	Prep Method:	3550B		
	//N) N pH:	Analytical Meth	od: SW-8	46 8270	
		Instrument ID:	MSSV4		
CONCENTRATIO	ON UNITS: mg/kg	Prep Batch:	448916	Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
92-87-5	Benzidine	2.11	U	2.11	2.11
56-55-3	Benzo(a)anthracene	0.085	U	0.018	0.085
50-32-8	Benzo(a)pyrene	0.085	U	0.024	0.085
205-99-2	Benzo(b)fluoranthene	0.423	U	0.013	0.423
191-24-2	Benzo(g,h,i)perylene	0.181	J	0.012	0.423
207-08-9	Benzo(k)fluoranthene	0.423	U	0.019	0.423
65-85-0	Benzoic acid	2.11	U	0.146	2.11
100-51-6	Benzyl alcohol	0.423	U	0.049	0.423
92-52-4	Biphenyl	0.423	Ų	0.014	0.423
111-91-1	Bis(2-Chloroethoxy)methane	0.423	U	0.023	0.423
111-44-4	Bis(2-Chloroethyl)ether	0.423	U	0.032	0.423
108-60-1	bis(2-Chloroisopropyl)ether	0.423	U	0.022	0.423
117-81-7	bis(2-ethylhexyl)phthalate	0.115		0.016	0.085
85-68-7	Butylbenzylphthalate	0.423	U	0.00892	0.423
105-60-2	Caprolactam	0.423	U	0.045	0.423
86-74-8	Carbazole	0.423	U	0.030	0.423
218-01-9	Chrysene	0.023	J	0.014	0.423
84-74-2	Di-n-butylphthalate	0.423	U	0.010	0.423
117-84-0	Di-n-octylphthalate	0.423	U	0.014	0.423
53-70-3	Dibenz(a,h)anthracene	0.085	U	0.012	0.085
132-64-9	Dibenzofuran	0.423	U	0.015	0.423
84-66-2	Diethylphthalate	0.044	J	0.039	0.423
131-11-3	Dimethyl-phthalate	0.423	U	0.00937	0.423
206-44-0	Fluoranthene	0.015	J	0.00935	0.423
86-73-7	Fluorene	0.085	U	0.013	0.085
118-74-1	Hexachlorobenzene	0.423	U	0.051	0.423
77-47-4	Hexachlorocyclopentadiene	0.423	U	0.063	0.423
67-72-1	Hexachloroethane	0.423	U	0.063	0.423
193-39-5	Indeno(1,2,3-cd)pyrene	0.423	U	0.017	0.423

FORM I SV-1

Lab Name: GCAL		Sample ID: T	-6-NORTH		
Lab Code: LA024	Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 2	110114/e79	189	·
Matrix: Solid		Lab Sample ID	: 2110114	0510	
Sample wt/vol: 30	0.2 Units: g	Date Collected	: 01/13/11	Time:	1625
Level: (low/med)	LOW	Date Received	01/14/11		
% Moisture: 22.5	decanted: (Y/N)	Date Extracted	: 01/14/11		
GC Column: RTX-	-5MS-30 ID: .25 (mm)	Date Analyzed	01/14/11	Time:	1926
Concentrated Extra	ct Volume: 1000 (μL)	Dilution Factor:	1	Analy	st: KCB
Injection Volume:	1.0 (µL)	Prep Method:	3550B		
GPC Cleanup: (Y/N	I) N pH:	Analytical Meth	od: SW-8	346 8270	
		Instrument ID:	MSSV4		
CONCENTRATION	I UNITS: mg/kg	Prep Batch:	448916	Analytical Ba	tch: 448983
CAS NO. CO	OMPOUND	RESULT		MDL	RL
78-59-1 Is	sophorone	0.423	U	0.014	0.423
98-95-3 N	litrobenzene	0.423	Ū	0.020	0.423
87-86-5 P	entachlorophenol	2.11	J	0.035	2.11
85-01-8 P	henanthrene	0.019	J	0.017	0.085
108-95-2 P	henol	0.092	J	0.020	0.423
129-00-0 P	yrene	0.423	U	0.059	0.423
110-86-1 P	yridine	0.423	J	0.024	0.423
1319-77-3M m	n,p-Cresol	0.423	J	0.074	0.423
621-64-7 N	I-Nitroso-di-n-propylamine	0.085	U	0.021	0.085
62-75-9 N	I-Nitrosodimethylamine	0.423	J	0.022	0.423
86-30-6 N	I-Nitrosodiphenylamine	0.423	U	0.013	0.423
95-48-7 o-	-Cresol	0.423	U	0.013	0.423

Lab Name: GC	AL	Sample ID: B	LIND DUP		
Lab Code: LA0	24 Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 2	110114/e79	90	
Matrix: Solid		Lab Sample ID	: 2110114	0511	
Sample wt/vol:	30.1 Units: g	Date Collected:	: 01/13/11	Time:	0000
Level: (low/med)	LOW	Date Received:	01/14/11		
% Moisture: 24	.1 decanted: (Y/N)	Date Extracted	: 01/14/11		
GC Column: RT	TX-5MS-30 ID: .25 (mm)	Date Analyzed:	01/14/11	Time:	1943
Concentrated Ext	tract Volume: 1000 ( µL )	Dilution Factor:	1	Analy	st: KCB
	1.0 ( µL )	Prep Method:	3550B		
	7/N) N pH:	Analytical Meth	od: SW-8	346 8270	
		Instrument ID:	MSSV4		
CONCENTRATIO	DN UNITS: mg/kg	Prep Batch: 4	148916	Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
122-66-7	1,2 Diphenylhydrazine	0.434	U	0.00987	0.434
95-95-4	2,4,5-Trichlorophenol	0.434	U	0.052	0.434
88-06-2	2,4,6-Trichlorophenol	0.434	U	0.068	0.434
120-83-2	2,4-Dichlorophenol	0.434	U	0.070	0.434
105-67-9	2,4-Dimethylphenol	0.434	U	0.055	0.434
51-28-5	2,4-Dinitrophenol	2.17	U	0.233	2.17
121-14-2	2,4-Dinitrotoluene	0.434	U	0.061	0.434
606-20-2	2,6-Dinitrotoluene	0.434	U	0.026	0.434
91-58-7	2-Chloronaphthalene	0.434	U	0.024	0.434
95-57-8	2-Chlorophenol	0.434	U	0.033	0.434
91-57-6	2-Methylnaphthalene	0.591		0.023	0.087
88-74-4	2-Nitroaniline	2.17	U	0.049	2.17
88-75-5	2-Nitrophenol	0.434	U	0.020	0.434
91-94-1	3,3'-Dichlorobenzidine	0.867	U	0.277	0.867
99-09-2	3-Nitroaniline	2.17	U	0.053	2.17
534-52-1	2-Methyl-4,6-dinitrophenol	2.17	U	0.043	2.17
101-55-3	4-Bromophenyl-phenylether	0.434	U	0.038	0.434
59-50-7	4-Chloro-3-methylphenol	0.434	U	0.034	0.434
106-47-8	4-Chloroaniline	0.434	U	0.043	0.434
7005-72-3	4-Chlorophenyl-phenylether	0.434	U	0.048	0.434
100-01-6	4-Nitroaniline	2.17	U	0.081	2.17
100-02-7	4-Nitrophenol	2.17	U	0.150	2.17
83-32-9	Acenaphthene	0.097		0.025	0.087
208-96-8	Acenaphthylene	0.285		0.015	0.087
98-86-2	Acetophenone	0.819		0.027	0.434
62-53-3	Aniline	0.434	U	0.023	0.434
120-12-7	Anthracene	0.038	J	0.015	0.087
1912-24-9	Atrazine (Aatrex)	0.867	U	0.064	0.867
100-52-7	Benzaldehyde	0.867	U	0.039	0.867

FORM I SV-1

Lab Name: GC	AL	Sample ID: B	LIND DUP		
Lab Code: LA0	24 Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 2	110114/e79	90	***************************************
Matrix: Solid		Lab Sample ID:	21101140	0511	
Sample wt/vol:	30.1 Units: g	Date Collected:	01/13/11	Time:	0000
Level: (low/med)		Date Received:		•••••••••••••••••••••••••••••••••••••••	
	.1 decanted: (Y/N)	Date Extracted:	**************************************	***************************************	
	TX-5MS-30 ID: .25 (mm)			Time:	1943
***************************************	tract Volume: 1000 (µL)			Analy	
	***************************************				***************************************
Injection Volume:	1.0 ( µL )	Prep Method:			
GPC Cleanup: (Y	//N) N pH:	Analytical Meth	od: SW-8	46 8270	
		Instrument ID:	MSSV4		
CONCENTRATIO	ON UNITS: mg/kg	Prep Batch:	148916	Analytical Bat	ch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
92-87-5	Benzidine	2.17	U	2.17	2.17
56-55-3	Benzo(a)anthracene	0.087	U	0.019	0.087
50-32-8	Benzo(a)pyrene	0.087	U	0.025	0.087
205-99-2	Benzo(b)fluoranthene	0.434	U	0.014	0.434
191-24-2	Benzo(g,h,i)perylene	0.434	<del>u</del>	0.012	0.434
207-08-9	Benzo(k)fluoranthene	0.434	<del>u</del>	0.020	0.434
65-85-0	Benzoic acid	2.17	<del>u</del>	0.150	2.17
100-51-6	Benzyl alcohol	0.434	<del>- i</del> - l	0.050	0.434
92-52-4	Biphenyl	0.202	J	0.014	0.434
111-91-1	Bis(2-Chloroethoxy)methane	0.434	<del>- i</del> - l	0.024	0.434
111-44-4	Bis(2-Chloroethyl)ether	0.434	<del>- Ü</del>	0.033	0.434
108-60-1	bis(2-Chloroisopropyl)ether	0.434	<del>- Ü</del>	0.022	0.434
117-81-7	bis(2-ethylhexyl)phthalate	0.087	<del>- i</del>	0.017	0.087
85-68-7	Butylbenzylphthalate	0.434	<del>U</del>	0.00914	0.434
105-60-2	Caprolactam	0.434	Ü	0.046	0.434
86-74-8	Carbazole	0.434	<del>- Ŭ</del>	0.031	0.434
218-01-9	Chrysene	0.434	<del>- i</del> - l	0.015	0.434
84-74-2	Di-n-butylphthalate	0.434	<del>u</del>	0.010	0.434
117-84-0	Di-n-octylphthalate	0.434	Ū	0.014	0.434
53-70-3	Dibenz(a,h)anthracene	0.087	<del>- U</del>	0.012	0.087
132-64-9	Dibenzofuran	0.434	U	0.015	0.434
84-66-2	Diethylphthalate	0.040	J	0.040	0.434
131-11-3	Dimethyl-phthalate	0.434	Ü	0.00960	0.434
206-44-0	Fluoranthene	0.030	J	0.00959	0.434
86-73-7	Fluorene	0.138		0.013	0.087
118-74-1	Hexachlorobenzene	0.434	U	0.052	0.434
77-47-4	Hexachlorocyclopentadiene	0.434	Ü	0.065	0.434
67-72-1	Hexachloroethane	0.434	<del>- ŭ</del>	0.064	0.434
193-39-5	Indeno(1,2,3-cd)pyrene	0.434	Ū	0.017	0.434

FORM I SV-1

Lab Name: GC	CAL	Sample ID: BLIND DUF	<b>)</b>		
Lab Code: LAC	024 Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 2110114/e7	'990		
Matrix: Solid		Lab Sample ID: 211011	40511		
Sample wt/vol:	30.1 Units: g	Date Collected: 01/13/1	1 Time:	0000	
Level: (low/med)	) LOW	Date Received: 01/14/1	1		
% Moisture: 24	4.1 decanted: (Y/N)	Date Extracted: 01/14/1	1		
	TX-5MS-30 ID: .25 (mm)	Date Analyzed: 01/14/1	1 Time	: 1943	
Concentrated Ex	xtract Volume: 1000 (μL)	Dilution Factor: 1	Analy	yst: KCB	
	e: 1.0 (µL)	Prep Method: 3550B			
	Y/N) N pH:	Analytical Method: SW	-846 8270		
		Instrument ID: MSSV4			
CONCENTRATI	ION UNITS: mg/kg	Prep Batch: 448916 Analytical Batch: 448983			
CAS NO.	COMPOUND	RESULT	MDL	RL	
78-59-1	Isophorone	0.434 U	0.014	0.434	
98-95-3	Nitrobenzene	0.434 U	0.020	0.434	
87-86-5	Pentachlorophenol	2.17 U	0.035	2.17	
85-01-8	Phenanthrene	0.158	0.018	0.087	
108-95-2	Phenol	0.434 U	0.021	0.434	
129-00-0	Pyrene	0.434 U	0.061	0.434	
110-86-1	Pyridine	0.434 U	0.024	0.434	
1319-77-3M	m,p-Cresol	0.179 J	0.076	0.434	
621-64-7	N-Nitroso-di-n-propylamine	0.087 U	0.022	0.087	
62-75-9	N-Nitrosodimethylamine	0.434 U	0.022	0.434	
86-30-6	N-Nitrosodiphenylamine	0.434 U	0.014	0.434	
95-48-7	o-Cresol	0.161 J	0.013	0.434	

Lab Name: GC	CAL		Sample ID: S	SC-W		
Lab Code: LA0	Case No.:		Contract:			
SAS No.:	SDG No.: 2110114	105	Lab File ID: 2	110114/e79	91	
Matrix: Solid			Lab Sample ID	: 2110114	0512	
Sample wt/vol:	30 Units: g		Date Collected	: 01/13/11	Time:	1645
Level: (low/med)	LOW	••••	Date Received	: 01/14/11		
% Moisture: 23	3.5 decanted: (Y/N)		Date Extracted	: 01/14/11		
GC Column: R	TX-5MS-30 ID: .25	(mm)	Date Analyzed	: 01/14/11	Time:	2000
Concentrated Ex	tract Volume: 1000	( µL )	Dilution Factor	: 1	Analy	st: KCB
	: 1.0		Prep Method:	3550B		
	Y/N) N pH:		Analytical Meth	nod: SW-8	46 8270	
	200000000000000000000000000000000000000		Instrument ID:	MSSV4		
CONCENTRATI	ON UNITS: mg/kg			***************************************	Analytical Ba	tch: 448983
CAS NO.	COMPOUND		RESULT	***************************************	MDL	RL
122-66-7	1,2 Diphenylhydrazine		0.431	U	0.00981	0.431
95-95-4	2,4,5-Trichlorophenol		0.431	U	0.051	0.431
88-06-2	2,4,6-Trichlorophenol		0.431	U	0.068	0.431
120-83-2	2,4-Dichlorophenol		0.431	U	0.069	0.431
105-67-9	2,4-Dimethylphenol		0.431	Ū	0.055	0.431
51-28-5	2,4-Dinitrophenol		2.16	U	0.231	2.16
121-14-2	2,4-Dinitrotoluene	-	0.431	U	0.061	0.431
606-20-2	2,6-Dinitrotoluene		0.431	U	0.025	0.431
91-58-7	2-Chloronaphthalene		0.431	U	0.023	0.431
95-57-8	2-Chlorophenol		0.431	U	0.033	0.431
91-57-6	2-Methylnaphthalene		0.086	U	0.023	0.086
88-74-4	2-Nitroaniline		2.16	U	0.048	2.16
88-75-5	2-Nitrophenol		0.431	U	0.020	0.431
91-94-1	3,3'-Dichlorobenzidine		0.862	U	0.276	0.862
99-09-2	3-Nitroaniline		2.16	U	0.053	2.16
534-52-1	2-Methyl-4,6-dinitrophenol		2.16	U	0.042	2.16
101-55-3	4-Bromophenyl-phenylether		0.431	U	0.038	0.431
59-50-7	4-Chloro-3-methylphenol		0.431	U	0.034	0.431
106-47-8	4-Chloroaniline		0.431	U	0.043	0.431
7005-72-3	4-Chlorophenyl-phenylether		0.431	U	0.048	0.431
100-01-6	4-Nitroaniline		2.16	U	0.080	2.16
100-02-7	4-Nitrophenol		2.16	U	0.149	2.16
83-32-9	Acenaphthene		0.086	U	0.024	0.086
208-96-8	Acenaphthylene		0.045	J	0.015	0.086
98-86-2	Acetophenone	· · · · · · · · · · · · · · · · · · ·	0.431	U	0.027	0.431
62-53-3	Aniline		0.431	U	0.023	0.431
120-12-7	Anthracene		0.053	J	0.015	0.086
1912-24-9	Atrazine (Aatrex)		0.862	U	0.064	0.862
100-52-7	Benzaldehyde		0.862	U	0.039	0.862

FORM I SV-1

Lab Name: GC	AL	Sample ID: S	SC-W		
Lab Code: LA0	Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 2	:110114/e79	91	
Matrix: Solid		Lab Sample ID	: 2110114	0512	
Sample wt/vol:	30 Units: g	Date Collected	: 01/13/11	Time:	1645
Level: (low/med)	LOW	Date Received	: 01/14/11		
	.5 decanted: (Y/N)	Date Extracted	: 01/14/11		
GC Column: RT	X-5MS-30 ID: .25 (mm)	Date Analyzed	01/14/11	Time:	2000
Concentrated Ext	ract Volume: 1000 ( µL )	Dilution Factor	: 1	Analy	st: KCB
	1.0 ( µL )	Prep Method:	3550B		
	//N) N pH:	Analytical Meth	nod: SW-8	346 8270	
		Instrument ID:	MSSV4		
CONCENTRATIO	DN UNITS: mg/kg	Prep Batch:	448916	Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
92-87-5	Benzidine	2.16	U	2.16	2.16
56-55-3	Benzo(a)anthracene	0.094		0.018	0.086
50-32-8	Benzo(a)pyrene	0.103		0.025	0.086
205-99-2	Benzo(b)fluoranthene	0.293	J	0.013	0.431
191-24-2	Benzo(g,h,i)perylene	0.328	J	0.012	0.431
207-08-9	Benzo(k)fluoranthene	0.065	J	0.020	0.431
65-85-0	Benzoic acid	2.16	Ü	0.149	2.16
100-51-6	Benzyl alcohol	0.431	U	0.050	0.431
92-52-4	Biphenyl	0.431	U	0.014	0.431
111-91-1	Bis(2-Chloroethoxy)methane	0.431	U	0.024	0.431
111-44-4	Bis(2-Chloroethyl)ether	0.431	U	0.033	0.431
108-60-1	bis(2-Chloroisopropyl)ether	0.431	U	0.022	0.431
117-81-7	bis(2-ethylhexyl)phthalate	0.154		0.017	0.086
85-68-7	Butylbenzylphthalate	0.431	U	0.00909	0.431
105-60-2	Caprolactam	0.431	U	0.046	0.431
86-74-8	Carbazole	0.431	U	0.031	0.431
218-01-9	Chrysene	0.133	J	0.015	0.431
84-74-2	Di-n-butylphthalate	0.431	U	0.010	0.431
117-84-0	Di-n-octylphthalate	0.431	U	0.014	0.431
53-70-3	Dibenz(a,h)anthracene	0.086	U	0.012	0.086
132-64-9	Dibenzofuran	0.431	U	0.015	0.431
84-66-2	Diethylphthalate	0.045	J	0.040	0.431
131-11-3	Dimethyl-phthalate	0.431	U	0.00955	0.431
206-44-0	Fluoranthene	0.178	J	0.00954	0.431
86-73-7	Fluorene	0.086	U	0.013	0.086
118-74-1	Hexachlorobenzene	0.431	U	0.052	0.431
77-47-4	Hexachlorocyclopentadiene	0.431	U	0.064	0.431
67-72-1	Hexachloroethane	0.431	U	0.064	0.431
193-39-5	Indeno(1,2,3-cd)pyrene	0.333	J	0.017	0.431

FORM I SV-1

Lab Name: GC	<b>AL</b>	Sample ID: SC-W	
Lab Code: LA02	Case No.:	Contract:	
SAS No.:	SDG No.: 211011405	Lab File ID: 2110114/e7991	
Matrix: Solid		Lab Sample ID: 21101140512	
Sample wt/vol:	30 Units: g	Date Collected: 01/13/11 Time: 1645	
Level: (low/med)	LOW	Date Received: 01/14/11	
% Moisture: 23	.5 decanted: (Y/N)	Date Extracted: 01/14/11	
GC Column: RT	X-5MS-30 ID: .25 (mm)	Date Analyzed: 01/14/11 Time: 2000	
Concentrated Ext	ract Volume: 1000 (μL)	Dilution Factor: 1 Analyst: KCB	
Injection Volume:	1.0 ( µL )	Prep Method: 3550B	
GPC Cleanup: (Y	/N) <u>N</u> pH:	Analytical Method: SW-846 8270	
		Instrument ID: MSSV4	
CONCENTRATIO	ON UNITS: mg/kg	Prep Batch: 448916 Analytical Batch: 448983	
CAS NO.	COMPOUND	RESULT MDL RL	
78-59-1	Isophorone	0.431 U 0.014 0.431	
98-95-3	Nitrobenzene	0.431 U 0.020 0.431	
87-86-5	Pentachlorophenol	2.16 U 0.035 2.16	
85-01-8	Phenanthrene	0.105 0.018 0.086	
108-95-2	Phenol	0.431 U 0.021 0.431	
129-00-0	Pyrene	0.220 J 0.060 0.431	
110-86-1	Pyridine	0.431 U 0.024 0.431	
1319-77-3M	m,p-Cresol	0.431 U 0.076 0.431	
	N-Nitroso-di-n-propylamine	0.086 U 0.022 0.086	
	N-Nitrosodimethylamine	0.431 U 0.022 0.431	
86-30-6	N-Nitrosodiphenylamine	0.431 U 0.014 0.431	
95-48-7	o-Cresol	0.431 U 0.013 0.431	1

Lab Name: G0	CAL	Sample ID: SC	:-E		
Lab Code: LA	024 Case No.:	Contract:	***************************************		
SAS No.:	SDG No.: 211011405	Lab File ID: 21	10114/e79	92	
Matrix: Solid		Lab Sample ID:	2110114	0513	
Sample wt/vol:	30.2 Units: g	Date Collected:	01/13/11	Time:	1655
Level: (low/med)	LOW	Date Received:	01/14/11		
% Moisture: 20	6.3 decanted: (Y/N)	Date Extracted:	01/14/11		
GC Column: R	TX-5MS-30 ID: .25 (mm)	Date Analyzed:	01/14/11	Time:	2016
Concentrated Ex	xtract Volume: 1000 ( µL )	Dilution Factor:	1	Analy	st: KCB
	e: 1.0 (μL)	Prep Method:	3550B		
	Y/N) N pH:	Analytical Metho	d: SW-8	46 8270	
·	>	Instrument ID:	MSSV4		
CONCENTRATI	ION UNITS: mg/kg	Prep Batch: 44	18916	Analytical Bat	ch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
122-66-7	1,2 Diphenylhydrazine	0.445	U	0.010	0.445
95-95-4	2,4,5-Trichlorophenol	0.445	U	0.053	0.445
88-06-2	2,4,6-Trichlorophenol	0.445	U	0.070	0.445
120-83-2	2,4-Dichlorophenol	0.445	U	0.072	0.445
105-67-9	2,4-Dimethylphenol	0.445	U	0.057	0.445
51-28-5	2,4-Dinitrophenol	2.22	U	0.238	2.22
121-14-2	2,4-Dinitrotoluene	0.445	U	0.063	0.445
606-20-2	2,6-Dinitrotoluene	0.445	U	0.026	0.445
91-58-7	2-Chloronaphthalene	0.445	U	0.024	0.445
95-57-8	2-Chlorophenol	0.445	U	0.034	0.445
91-57-6	2-Methylnaphthalene	0.073	J	0.024	0.089
88-74-4	2-Nitroaniline	2.22	U	0.050	2.22
88-75-5	2-Nitrophenol	0.445	U	0.020	0.445
91-94-1	3,3'-Dichlorobenzidine	0.889	U	0.284	0.889
99-09-2	3-Nitroaniline	2.22	U	0.054	2.22
534-52-1	2-Methyl-4,6-dinitrophenol	2.22	U.	0.044	2.22
101-55-3	4-Bromophenyl-phenylether	0.445	U	0.039	0.445
59-50-7	4-Chloro-3-methylphenol	0.445	U	0.035	0.445
106-47-8	4-Chloroaniline	0.445	U	0.044	0.445
7005-72-3	4-Chlorophenyl-phenylether	0.445	U	0.049	0.445
100-01-6	4-Nitroaniline	2.22	U	0.083	2.22
100-02-7	4-Nitrophenol	2.22	U	0.154	2.22
83-32-9	Acenaphthene	0.089	U	0.025	0.089
208-96-8	Acenaphthylene	0.089	U	0.015	0.089
98-86-2	Acetophenone	0.445	U	0.028	0.445
62-53-3	Aniline	0.445	U	0.024	0.445
120-12-7	Anthracene	0.025	J	0.016	0.089
1912-24-9	Atrazine (Aatrex)	0.889	U	0.066	0.889
100-52-7	Benzaldehyde	0.889	U	0.040	0.889

Lab Name: GC	AL	Sample ID: SC	C-E		
Lab Code: LA0	24 Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 21	10114/e799	92	
Matrix: Solid		Lab Sample ID:	21101140	)513	
Sample wt/vol:	30.2 Units: g	Date Collected:	01/13/11	Time:	1655
Level: (low/med)	LOW	Date Received:	01/14/11		
% Moisture: 26	.3 decanted: (Y/N)	Date Extracted:	01/14/11		
GC Column: RT	X-5MS-30 ID: .25 (mm)	Date Analyzed:	01/14/11	Time:	2016
Concentrated Ext	tract Volume: 1000 ( µL )	Dilution Factor:	1	Analy	st: KCB
	1.0 (μL)	Prep Method:	3550B		
	7/N) N pH:	Analytical Metho	od: SW-8	46 8270	
2. 2 2.2		Instrument ID:	MSSV4		
CONCENTRATIO	ON UNITS: mg/kg	***		Analytical Bat	ch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
92-87-5	Benzidine	2.22	U	2.22	2.22
56-55-3	Benzo(a)anthracene	0.060	J	0.019	0.089
50-32-8	Benzo(a)pyrene	0.062	J	0.026	0.089
205-99-2	Benzo(b)fluoranthene	0.244	J	0.014	0.445
191-24-2	Benzo(g,h,i)perylene	0.228	J	0.012	0.445
207-08-9	Benzo(k)fluoranthene	0.038	J	0.020	0.445
65-85-0	Benzoic acid	2.22	U	0.154	2.22
100-51-6	Benzyl alcohol	0.445	U I	0.052	0.445
92-52-4	Biphenyl	0.445	U	0.015	0.445
111-91-1	Bis(2-Chloroethoxy)methane	0.445	U	0.025	0.445
111-44-4	Bis(2-Chloroethyl)ether	0.445	U	0.034	0.445
108-60-1	bis(2-Chloroisopropyl)ether	0.445	U I	0.023	0.445
117-81-7	bis(2-ethylhexyl)phthalate	0.123		0.017	0.089
85-68-7	Butylbenzylphthalate	0.445	U	0.00938	0.445
105-60-2	Caprolactam	0.445	U	0.047	0.445
86-74-8	Carbazole	0.445	U	0.032	0.445
218-01-9	Chrysene	0.081	J	0.015	0.445
84-74-2	Di-n-butylphthalate	0.445	U	0.011	0.445
117-84-0	Di-n-octylphthalate	0.445	U	0.015	0.445
53-70-3	Dibenz(a,h)anthracene	0.089	U	0.012	0.089
132-64-9	Dibenzofuran	0.445	U	0.015	0.445
84-66-2	Diethylphthalate	0.445	U	0.041	0.445
131-11-3	Dimethyl-phthalate	0.445	U	0.00985	0.445
206-44-0	Fluoranthene	0.111	J	0.00984	0.445
86-73-7	Fluorene	0.018	J	0.014	0.089
118-74-1	Hexachlorobenzene	0.445	U	0.053	0.445
77-47-4	Hexachlorocyclopentadiene	0.445	U	0.066	0.445
67-72-1	Hexachloroethane	0.445	U	0.066	0.445
193-39-5	Indeno(1,2,3-cd)pyrene	0.259	J	0.018	0.445

FORM I SV-1

Lab Name: GC	AL	Sample ID: SC-E		
Lab Code: LA0	24 Case No.:	Contract:		
SAS No.:	SDG No.: 211011405			
Matrix: Solid		Lab Sample ID: 21101	140513	
Sample wt/vol:	30.2 Units: g	Date Collected: 01/13/	11 Time:	1655
Level: (low/med)	LOW	Date Received: 01/14/	11	
% Moisture: 26	decanted: (Y/N)	Date Extracted: 01/14/	11	
GC Column: R	TX-5MS-30 ID: .25 (mm)	Date Analyzed: 01/14/	11 Time	: 2016
Concentrated Ex	tract Volume: 1000 ( µL )	Dilution Factor: 1	Analy	/st: KCB
Injection Volume	: 1.0 (µL)	Prep Method: 3550B		
	//N) N pH:	Analytical Method: SV	V-846 8270	
	50000000000000000000000000000000000000	Instrument ID: MSSV4		
CONCENTRATIO	ON UNITS: mg/kg	Prep Batch: 448916	Analytical Ba	itch: 448983
CAS NO.	COMPOUND	RESULT	MDL	RL
78-59-1	Isophorone	0.445 U	0.015	0.445
98-95-3	Nitrobenzene	0.445 U	0.021	0.445
87-86-5	Pentachlorophenol	2.22 U	0.036	2.22
85-01-8	Phenanthrene	0.077 J	0.018	0.089
108-95-2	Phenol	0.445 U	0.022	0.445
129-00-0	Pyrene	0.122 J	0.062	0.445
110-86-1	Pyridine	0.445 U	0.025	0.445
1319-77-3M	m,p-Cresol	0.445 U	0.078	0.445
621-64-7	N-Nitroso-di-n-propylamine	0.089 U	0.022	0.089
62-75-9	N-Nitrosodimethylamine	0.445 U	0.023	0.445
86-30-6	N-Nitrosodiphenylamine	0.445 U	0.014	0.445
95-48-7	o-Cresol	0.445 U	0.014	0.445

Lab Name: GC	AL	Sample ID: EQU	Sample ID: EQUIPMENT BLANK			
Lab Code: LA0	24 Case No.:	Contract:				
SAS No.:	SDG No.: 211011405	Lab File ID: 211	0114/e7976	·		
Matrix: Water		Lab Sample ID:	211011405	14		
***************************************						
Sample wt/vol:	990 Units: mL	Date Collected:	01/13/11	Time:	1710	
Level: (low/med)	LOW	Date Received:	01/14/11			
% Moisture:	decanted: (Y/N)	Date Extracted:	01/14/11			
GC Column: R	TX-5MS-30 ID: .25 (mm)	Date Analyzed:	01/14/11	Time:	1549	
Concentrated Ex	tract Volume: 1000 ( µL )	Dilution Factor:	1	Analy	st: KCB	
	: 1.0 ( µL )	Prep Method: 3	510C			
	//N) N pH:	Analytical Method	l: SW-846	8270		
		Instrument ID: N	ISSV4			
CONCENTRATIO	ON UNITS: mg/L	Prep Batch: 448	***************************************	Analytical Ba	tch: 118083	
CAS NO.	COMPOUND	RESULT	3324	MDL	RL	
122-66-7	1,2 Diphenylhydrazine	0.010	U	0.000192	0.010	
95-95-4	2,4,5-Trichlorophenol	0.010	U	0.000126	0.010	
88-06-2	2,4,6-Trichlorophenol	0.010	U	0.000167	0.010	
120-83-2	2,4-Dichlorophenol	0.010	U	0.000210	0.010	
105-67-9	2,4-Dimethylphenol	0.010	U	0.000198	0.010	
51-28-5	2,4-Dinitrophenol	0.010	U	0.00305	0.010	
121-14-2	2,4-Dinitrotoluene	0.010	U	0.000251	0.010	
606-20-2	2,6-Dinitrotoluene	0.010	U	0.000292	0.010	
91-58-7	2-Chloronaphthalene	0.010	U	0.000216	0.010	
95-57-8	2-Chlorophenol	0.010	U	0.000184	0.010	
91-57-6	2-Methylnaphthalene	0.010	U	0.000213	0.010	
88-74-4	2-Nitroaniline	0.010	U	0.000152	0.010	
88-75-5	2-Nitrophenol	0.010	U	0.000153	0.010	
91-94-1	3,3'-Dichlorobenzidine	0.010	U	0.000168	0.010	
99-09-2	3-Nitroaniline	0.010	U	0.00129	0.010	
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	0.00244	0.010	
101-55-3	4-Bromophenyl-phenylether	0.010	U	0.000282	0.010	
59-50-7	4-Chloro-3-methylphenol	0.010	U	0.000273	0.010	
106-47-8	4-Chloroaniline	0.010	U	0.000139	0.010	
7005-72-3	4-Chlorophenyl-phenylether	0.010	U	0.000261	0.010	
100-01-6	4-Nitroaniline	0.010	U	0.000231	0.010	
100-02-7	4-Nitrophenol	0.010	Ü	0.000705	0.010	
83-32-9	Acenaphthene	0.010	<del>u</del> l	0.000204	0.010	
208-96-8	Acenaphthylene	0.010	<del>u</del> l	0.000119	0.010	
98-86-2	Acetophenone	0.010	<del>u</del> l	0.000245	0.010	
62-53-3	Aniline	0.010	<del>u</del> +	0.000212	0.010	
120-12-7	Anthracene	0.010	<del>u</del> +	0.000159	0.010	
1912-24-9	Atrazine (Aatrex)	0.051	<del>"</del>	0.000139	0.051	
100-52-7	Benzaldehyde	0.051	Ü	0.00335	0.051	

FORM I SV-1

Lab Name: GC	AL		Sample ID: E	QUIPMENT	BLANK	
Lab Code: LA0	24 Case No.:		Contract:			
SAS No.:	SDG No.: 2110	11405	Lab File ID: 2	110114/e79	76	
Matrix: Water			Lab Sample ID	: 2110114	0514	
Sample wt/vol:	990 Units: mL		Date Collected	: 01/13/11	Time:	1710
Level: (low/med)	LOW		Date Received	: 01/14/11		
% Moisture:	decanted: (Y/N)		Date Extracted	: 01/14/11		
GC Column: RT	TX-5MS-30 ID: .25	(mm)	Date Analyzed	01/14/11	Time:	1549
Concentrated Ext	tract Volume: 1000	( µL )	Dilution Factor	: 1	Analy	st: KCB
	1.0		Prep Method:	3510C		
	7/N) N pH:		Analytical Meth	nod: SW-8	46 8270	
	<b>3000000000000000000000000000000000000</b>		Instrument ID:	MSSV4		
CONCENTRATIO	ON UNITS: mg/L		Prep Batch:	448924	Analytical Ba	tch: 448983
CAS NO.	COMPOUND		RESULT		MDL	RL
92-87-5	Benzidine		0.051	U	0.00310	0.051
56-55-3	Benzo(a)anthracene		0.010	U	0.000159	0.010
50-32-8	Benzo(a)pyrene		0.010	· U	0.000123	0.010
205-99-2	Benzo(b)fluoranthene		0.010	· U	0.000242	0.010
191-24-2	Benzo(g,h,i)perylene		0.010	U	0.000162	0.010
207-08-9	Benzo(k)fluoranthene		0.010	U	0.000239	0.010
65-85-0	Benzoic acid		0.010	U	0.00343	0.010
100-51-6	Benzyl alcohol		0.010	Ū	0.000320	0.010
92-52-4	Biphenyl		0.010	Ū	0.000140	0.010
111-91-1	Bis(2-Chloroethoxy)methane		0.010	Ü	0.000305	0.010
111-44-4	Bis(2-Chloroethyl)ether		0.010	U	0.000139	0.010
108-60-1	bis(2-Chloroisopropyl)ether		0.010	Ü	0.000139	0.010
117-81-7	bis(2-ethylhexyl)phthalate		0.010	U	0.000242	0.010
85-68-7	Butylbenzylphthalate		0.010	U	0.000346	0.010
105-60-2	Caprolactam		0.010	Ū	0.00118	0.010
86-74-8	Carbazole		0.010	Ü	0.000211	0.010
218-01-9	Chrysene		0.010	· U	0.000267	0.010
84-74-2	Di-n-butylphthalate		0.010	U	0.000145	0.010
117-84-0	Di-n-octylphthalate		0.010	Ü	0.000263	0.010
53-70-3	Dibenz(a,h)anthracene		0.010	U	0.000263	0.010
132-64-9	Dibenzofuran		0.010	U	0.000126	0.010
84-66-2	Diethylphthalate		0.010	U	0.000099	0.010
131-11-3	Dimethyl-phthalate		0.010	U	0.000151	0.010
206-44-0	Fluoranthene		0.010	U	0.000175	0.010
86-73-7	Fluorene		0.010	U	0.000135	0.010
118-74-1	Hexachlorobenzene		0.010	U	0.000260	0.010
77-47-4	Hexachlorocyclopentadiene		0.010	Ü	0.000132	0.010
67-72-1	Hexachloroethane		0.010	U	0.00111	0.010
193-39-5	Indeno(1,2,3-cd)pyrene	,	0.010	U	0.000270	0.010

FORM I SV-1

ab Name: GCAL Sample ID: EQUIPMENT BLANK			
Lab Code: LA024 Case No.:	Contract:		
SAS No.: SDG No.: 211011405	Lab File ID: 2110114/e7976		
Matrix: Water	Lab Sample ID: 21101140514		
Sample wt/vol: 990 Units: mL	Date Collected: 01/13/11 Time: 1710		
Level: (low/med) LOW	Date Received: 01/14/11		
% Moisture: decanted: (Y/N)	Date Extracted: 01/14/11		
GC Column: RTX-5MS-30 ID: .25 (mm	Date Analyzed: 01/14/11 Time: 1549		
Concentrated Extract Volume: 1000 ( μL	Dilution Factor: 1 Analyst: KCB		
Injection Volume: 1.0 ( µL	Prep Method: 3510C		
GPC Cleanup: (Y/N) N pH:	Analytical Method: SW-846 8270		
	Instrument ID: MSSV4		
CONCENTRATION UNITS: mg/L	Prep Batch: 448924 Analytical Batch: 448983		
CAS NO. COMPOUND	RESULT MDL RL		
78-59-1 Isophorone	0.010 U 0.000119 0.010		
98-95-3 Nitrobenzene	0.010 U 0.000222 0.010		
87-86-5 Pentachlorophenol	0.010 U 0.00154 0.010		
85-01-8 Phenanthrene	0.010 U 0.000152 0.010		
108-95-2 Phenol	0.010 U 0.000244 0.010		
129-00-0 Pyrene	0.010 U 0.000203 0.010		
110-86-1 Pyridine	0.010 U 0.00156 0.010		
1319-77-3M m,p-Cresol	0.010 U 0.000335 0.010		
621-64-7 N-Nitroso-di-n-propylamine	0.010 U 0.000376 0.010		
62-75-9 N-Nitrosodimethylamine	0.010 U 0.000520 0.010		
86-30-6 N-Nitrosodiphenylamine	0.010 U 0.000172 0.010		
95-48-7 o-Cresol	0.010 U 0.000184 0.010		

Lab Name: GC	AL	Sample ID: M	IB912490		
Lab Code: LA02	24 Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 2			
Matrix: Solid		Lab Sample ID	912490		
Sample wt/vol:	30.1 Units: g	Date Collected		Time:	
Level: (low/med)		Date Received:			
, ,		Date Extracted:	***************************************		
	decanted: (Y/N)	Date Analyzed:	***************************************		1606
	X-5MS-30 ID: .25 (mm)				
Concentrated Ext	ract Volume: 1000 ( µL )	Dilution Factor:	1	Analy	st: KCB
Injection Volume:	1.0 ( µL )	Prep Method:	3550B		
GPC Cleanup: (Y	/N) N pH:	Analytical Meth	od: SW-8	46 8270	
	,	Instrument ID:	MSSV4		
CONCENTRATIO	DN UNITS: mg/kg	Prep Batch: 4	***************************************	Analytical Bat	tch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
208-96-8	Acenaphthylene	0.066	U	0.011	0.066
120-12-7	Anthracene	0.066	U	0.012	0.066
56-55-3	Benzo(a)anthracene	0.066	U	0.014	0.066
92-87-5	Benzidine	1.64	U	1.64	1.64
205-99-2	Benzo(b)fluoranthene	0.329	U	0.010	0.329
207-08-9	Benzo(k)fluoranthene	0.329	U	0.015	0.329
191-24-2	Benzo(g,h,i)perylene	0.329	U	0.00909	0.329
50-32-8	Benzo(a)pyrene	0.066	U	0.019	0.066
65-85-0	Benzoic acid	1.64	U	0.114	1.64
85-68-7	Butylbenzylphthalate	0.329	U	0.00694	0.329
111-91-1	Bis(2-Chloroethoxy)methane	0.329	U	0.018	0.329
111-44-4	Bis(2-Chloroethyl)ether	0.329	U	0.025	0.329
108-60-1	bis(2-Chloroisopropyl)ether	0.329	U	0.017	0.329
117-81-7	bis(2-ethylhexyl)phthalate	0.066	U	0.013	0.066
101-55-3	4-Bromophenyl-phenylether	0.329	U	0.029	0.329
86-74-8	Carbazole	0.329	U	0.024	0.329
7005-72-3	4-Chlorophenyl-phenylether	0.329	U	0.037	0.329
218-01-9	Chrysene	0.329	U	0.011	0.329
53-70-3	Dibenz(a,h)anthracene	0.066	U	0.00903	0.066
132-64-9	Dibenzofuran	0.329	U	0.011	0.329
91-94-1	3,3'-Dichlorobenzidine	0.658	U	0.210	0.658
120-83-2	2,4-Dichlorophenol	0.329	U	0.053	0.329
84-66-2	Diethylphthalate	0.329	U	0.030	0.329
105-67-9	2,4-Dimethylphenol	0.329	U	0.042	0.329
131-11-3	Dimethyl-phthalate	0.329	U	0.00729	0.329
117-84-0	Di-n-octylphthalate	0.329	U	0.011	0.329
51-28-5	2,4-Dinitrophenol	1.64	U	0.176	1.64
606-20-2	2,6-Dinitrotoluene	0.329	U	0.019	0.329
206-44-0	Fluoranthene	0.329	U	0.00728	0.329

FORM I SV-1

Lab Name: GC	AL	Sample ID: _M	/IB912490		
Lab Code: LA0	Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: _2	:110114/e79	)77	
Matrix: Solid		Lab Sample ID	: 912490		
Sample wt/vol:	30.1 Units: g	Date Collected		Time:	
Level: (low/med)		Date Received			**************************************
% Moisture:	decanted: (Y/N)	Date Extracted	·		
-	TX-5MS-30 ID: .25 (mm)	Date Analyzed:	: 01/14/11	Time:	1606
	tract Volume: 1000 ( µL )	Dilution Factor:	: 1	Analy	st: KCB
	: 1.0 (µL)	Prep Method:	3550B		
	//N) N pH:	Analytical Meth	nod: SW-8	346 8270	
(		Instrument ID:	MSSV4		
CONCENTRATIO	ON UNITS: mg/kg	Prep Batch:		Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
86-73-7	Fluorene	0.066	U	0.010	0.066
118-74-1	Hexachlorobenzene	0.329	U	0.039	0.329
77-47-4	Hexachlorocyclopentadiene	0.329	U	0.049	0.329
67-72-1	Hexachloroethane	0.329	U	0.049	0.329
78-59-1	Isophorone	0.329	U	0.011	0.329
193-39-5	Indeno(1,2,3-cd)pyrene	0.329	U	0.013	0.329
91-57-6	2-Methylnaphthalene	0.066	U	0.018	0.066
95-48-7	o-Cresol	0.329	U	0.010	0.329
98-95-3	Nitrobenzene	0.329	U	0.015	0.329
88-75-5	2-Nitrophenol	0.329	U	0.015	0.329
62-75-9	N-Nitrosodimethylamine	0.329	Ü	0.017	0.329
86-30-6	N-Nitrosodiphenylamine	0.329	U	0.010	0.329
85-01-8	Phenanthrene	0.066	U	0.013	0.066
95-95-4	2,4,5-Trichlorophenol	0.329	Ü	0.039	0.329
88-06-2	2,4,6-Trichlorophenol	0.329	U	0.052	0.329
100-51-6	Benzyl alcohol	0.329	U	0.038	0.329
62-53-3	Aniline	0.329	Ü	0.018	0.329
110-86-1	Pyridine	0.329	Ū	0.019	0.329
105-60-2	Caprolactam	0.329	U	0.035	0.329
98-86-2	Acetophenone	0.329	U	0.020	0.329
99-09-2	3-Nitroaniline	1.64	U	0.040	1.64
100-01-6	4-Nitroaniline	1.64	U	0.061	1.64
84-74-2	Di-n-butylphthalate	0.329	Ü	0.00794	0.329
122-66-7	1,2 Diphenylhydrazine	0.329	U	0.00749	0.329
88-74-4	2-Nitroaniline	1.64	U	0.037	1.64
91-58-7	2-Chloronaphthalene	0.329	U	0.018	0.329
106-47-8	4-Chloroaniline	0.329	Ü .	0.033	0.329
1912-24-9	Atrazine (Aatrex)	0.658	U	0.049	0.658
100-52-7	Benzaldehyde	0.658	U	0.030	0.658

FORM I SV-1

Lab Name: GC	AL	Sample ID: MB	3912490		
Lab Code: LA0	24 Case No.:	Contract:			
SAS No.:	SDG No.: 211011405				
Matrix: Solid		Lab Sample ID:	912490		
Sample wt/vol:	30.1 Units: g	Date Collected:		Time:	
Level: (low/med)	LOW	Date Received:	,		
% Moisture:	decanted: (Y/N)	Date Extracted:	01/14/11		
GC Column: R1	TX-5MS-30 ID: .25 (mm)	Date Analyzed:	01/14/11	Time:	1606
Concentrated Ex	tract Volume: 1000 ( µL )	Dilution Factor:	1	Analy	st: KCB
Injection Volume	: ( µL )	Prep Method:	3550B		
GPC Cleanup: (Y/N) N pH: Analytical Method: SW-846 8270					
		Instrument ID:	MSSV4		
CONCENTRATIO	ON UNITS: mg/kg	Prep Batch: 44	18916	Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
92-52-4	Biphenyl	0.329	U	0.011	0.329
1319-77-3M	m,p-Cresol	0.329	U	0.058	0.329
534-52-1	2-Methyl-4,6-dinitrophenol	1.64	U	0.032	1.64
108-95-2	Phenol	0.329	U	0.016	0.329
95-57-8	2-Chlorophenol	0.329	U	0.025	0.329
621-64-7	N-Nitroso-di-n-propylamine	0.066	U	0.017	0.066
59-50-7	4-Chloro-3-methylphenol	0.329	U	0.026	0.329
83-32-9	Acenaphthene	0.066	U	0.019	0.066
100-02-7	4-Nitrophenol	1.64	U	0.114	1.64
121-14-2	2,4-Dinitrotoluene	0.329	U	0.046	0.329
87-86-5	Pentachlorophenol	1.64	U	0.027	1.64
129-00-0	Pyrene	0.329	U	0.046	0.329

Lab Name: GC	AL		Sample ID:	/IB912529		
Lab Code: LA0	24 Case No.:		Contract:			
SAS No.:	SDG No.: 2110114	.05	Lab File ID: _2	110114/e79	73	
Matrix: Water			Lab Sample ID	912529		
Sample wt/vol:	1000 Units: mL		Date Collected		Time:	
Level: (low/med)	LOW		Date Received	:		
% Moisture:	decanted: (Y/N)		Date Extracted	: 01/14/11		
GC Column: R1	TX-5MS-30 ID: .25	(mm)	Date Analyzed	: 01/14/11	Time:	1459
Concentrated Ex	tract Volume: 1000	( µL )	Dilution Factor	: 1	Analy	st: KCB
	: 1.0	( µL )	Prep Method:	3510C		
GPC Cleanup: (Y	//N) N pH:		Analytical Meth	nod: SW-8	46 8270	
			Instrument ID:	MSSV4		
CONCENTRATION	ON UNITS: mg/L			***************************************		
			Prep Batch:	448924	Analytical Ba	tch: 448983
CAS NO.	COMPOUND		RESULT		MDL	RL
208-96-8	Acenaphthylene	· 1	0.010	Ų	0.000118	0.010
120-12-7	Anthracene		0.010	U	0.000157	0.010
56-55-3	Benzo(a)anthracene		0.010	U	0.000157	0.010
92-87-5	Benzidine		0.050	U	0.00307	0.050
205-99-2	Benzo(b)fluoranthene		0.010	U	0.000240	0.010
207-08-9	Benzo(k)fluoranthene		0.010	U	0.000237	0.010
191-24-2	Benzo(g,h,i)perylene		0.010	U	0.000160	0.010
50-32-8	Benzo(a)pyrene		0.010	U	0.000122	0.010
65-85-0	Benzoic acid		0.010	Ū	0.00340	0.010
85-68-7	Butylbenzylphthalate		0.010	Ü	0.000343	0.010
111-91-1	Bis(2-Chloroethoxy)methane		0.010	U	0.000302	0.010
111-44-4	Bis(2-Chloroethyl)ether		0.010	Ü	0.000138	0.010
108-60-1	bis(2-Chloroisopropyl)ether		0.010	U	0.000138	0.010
117-81-7	bis(2-ethylhexyl)phthalate		0.010	U	0.000240	0.010
101-55-3	4-Bromophenyl-phenylether		0.010	U	0.000279	0.010
86-74-8	Carbazole		0.010	U	0.000209	0.010
7005-72-3	4-Chlorophenyl-phenylether		0.010	Ü	0.000258	0.010
218-01-9	Chrysene		0.010	l Ü	0.000264	0.010
53-70-3	Dibenz(a,h)anthracene		0.010	Ü	0.000260	0.010
132-64-9	Dibenzofuran		0.010	U	0.000125	0.010
91-94-1	3,3'-Dichlorobenzidine		0.010	U	0.000166	0.010
120-83-2	2,4-Dichlorophenol		0.010	Ū	0.000208	0.010
84-66-2	Diethylphthalate		0.010	U	0.000200	0.010
105-67-9	2,4-Dimethylphenol		0.010	Ü	0.000196	0.010
131-11-3	Dimethyl-phthalate		0.010	U	0.000190	0.010
117-84-0	Di-n-octylphthalate		0.010	U	0.000149	0.010
51-28-5	2,4-Dinitrophenol		0.010	U	0.00302	0.010
			0.010	U	0.00302	
606-20-2	2,6-Dinitrotoluene					0.010
206-44-0	Fluoranthene	1	0.010	U	0.000173	0.010

FORM I SV-1

Lab Name: GC	AL	Sample ID:	MB912529		
Lab Code: LA0	24 Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID:	2110114/e79	73	
Matrix: Water		Lab Sample II	D: 912529		
Sample wt/vol:	1000 Units: mL	Date Collected	<b>d:</b>	Time:	
Level: (low/med)	LOW	Date Received	d:		
% Moisture:	decanted: (Y/N)	Date Extracted	d: 01/14/11		
GC Column: RT	TX-5MS-30 ID: .25 (mr	n) Date Analyzed	d: <u>01/14/11</u>	Time:	1459
Concentrated Ext	ract Volume: 1000 (μΙ	) Dilution Factor	r: 1	Analy	st: KCB
Injection Volume:	1.0 (μΙ	) Prep Method:	3510C		
GPC Cleanup: (Y	/N) N pH:	Analytical Met	hod: SW-8	346 8270	
		Instrument ID:	MSSV4		
CONCENTRATIO	ON UNITS: mg/L	Prep Batch:	448924	Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
86-73-7	Fluorene	0.010	U	0.000134	0.010
118-74-1	Hexachlorobenzene	0.010	U	0.000257	0.010
77-47-4	Hexachlorocyclopentadiene	0.010	U	0.000131	0.010
67-72-1	Hexachloroethane	0.010	U	0.00110	0.010
78-59-1	Isophorone	0.010	U	0.000118	0.010
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	U	0.000267	0.010
91-57-6	2-Methylnaphthalene	0.010	U	0.000211	0.010
95-48-7	o-Cresol	0.010	U	0.000182	0.010
98-95-3	Nitrobenzene	0.010	U	0.000220	0.010
88-75-5	2-Nitrophenol	0.010	U	0.000151	0.010
62-75-9	N-Nitrosodimethylamine	0.010	U	0.000515	0.010
86-30-6	N-Nitrosodiphenylamine	0.010	U	0.000170	0.010
85-01-8	Phenanthrene	0.010	U	0.000150	0.010
95-95-4	2,4,5-Trichlorophenol	0.010	U	0.000125	0.010
88-06-2	2,4,6-Trichlorophenol	0.010	U	0.000165	0.010
100-51-6	Benzyl alcohol	0.010	U	0.000317	0.010
62-53-3	Aniline	0.010	U	0.000210	0.010
110-86-1	Pyridine	0.010	U	0.00154	0.010
105-60-2	Caprolactam	0.010	U	0.00117	0.010
98-86-2	Acetophenone	0.010	U	0.000243	0.010
99-09-2	3-Nitroaniline	0.010	U	0.00128	0.010
100-01-6	4-Nitroaniline	0.010	U	0.000229	0.010
84-74-2	Di-n-butylphthalate	0.010	U	0.000144	0.010
122-66-7	1,2 Diphenylhydrazine	0.010	U	0.000190	0.010
88-74-4	2-Nitroaniline	0.010	U	0.000150	0.010
91-58-7	2-Chloronaphthalene	0.010	U	0.000214	0.010
106-47-8	4-Chloroaniline	0.010	U	0.000138	0.010
1912-24-9	Atrazine (Aatrex)	0.050	U	0.000318	0.050
100-52-7	Benzaldehyde	0.050	U	0.00332	0.050

FORM I SV-1

Lab Name: GC	AL	Sample ID: MB912529			
Lab Code: LA0	24 Case No.:	Contract:			
SAS No.:	SDG No.: 211011405	Lab File ID: 2	110114/e79	73	***************************************
Matrix: Water		Lab Sample ID	: 912529		
Sample wt/vol:	1000 Units: mL	Date Collected	•	Time:	
Level: (low/med)	LOW	Date Received			
% Moisture:	decanted: (Y/N)	Date Extracted	: 01/14/11		
GC Column: R	TX-5MS-30 ID: .25 (mm)	Date Analyzed	01/14/11	Time:	1459
Concentrated Ex	tract Volume: 1000 ( µL )	Dilution Factor	1	Analy	st: KCB
Injection Volume	:1.0 ( µL )	Prep Method:	3510C		
	//N) N pH:	Analytical Meth	nod: SW-8	346 8270	
		Instrument ID:	MSSV4		
CONCENTRATIO	ON UNITS: mg/L	Prep Batch:	448924	Analytical Ba	tch: 448983
CAS NO.	COMPOUND	RESULT		MDL	RL
92-52-4	Biphenyl	0.010	U	0.000139	0.010
1319-77-3M	m,p-Cresol	0.010	U	0.000332	0.010
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	0.00242	0.010
108-95-2	Phenol	0.010	U	0.000242	0.010
95-57-8	2-Chlorophenol	0.010	U	0.000182	0.010
621-64-7	N-Nitroso-di-n-propylamine	0.010	U	0.000372	0.010
59-50-7	4-Chloro-3-methylphenol	0.010	U	0.000270	0.010
83-32-9	Acenaphthene	0.010	U	0.000202	0.010
100-02-7	4-Nitrophenol	0.010	U	0.000698	0.010
121-14-2	2,4-Dinitrotoluene	0.010	U	0.000248	0.010
87-86-5	Pentachlorophenol	0.010	U	0.00152	0.010
129-00-0	Pyrene	0.010	U	0.000201	0.010

## 2C WATER SEMIVOLATILE SURROGATE RECOVERY

	Lab Name: GCAL					Con	tract:	***************************************	•••••					***************************************	
	Lab Code: LA024		Case No.:				SAS No.:						211011405		
.vov	Method: SW-846 8	8270	Level: ( low/med ) LOW							<b>V</b>					
	EPA SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	SMC5	#	SMC6	#	TOT OUT	
1.	EQUIPMENT BLANK	91	1	91		109		41	П	61		80		0	
2 .	MB912529	79		80	$\Box$	98		37		56		66		0	
3.	LCS912530	94		98		99		44	П	66	T	91		0	
4 .	LCSD912531	87	1	89		97		42		63	1 1	83		0	

		CONTROL	LIMITS
SMC 1	Nitrobenzene-d5	52	120
SMC 2	2-Fluorobiphenyl	16	128
SMC 3	Terphenyl-d14	43	138
SMC 4	Phenol-d5	10	120
SMC 5	2-Fluorophenol	10	120
SMC 6	2,4,6-Tribromophenol	52	121

[#] Column to be used to flag recovery limits

^{*} Value outside of contract required limits

D Surrogate diluted out

### 2D SOIL SEMIVOLATILE SURROGATE RECOVERY

	Lab Name: GCAL					Contra	ct:	***************************************		***************************************	****************			0690000000	
	Lab Code: LA024	Case No.:			SAS No.:					SDG No.: 211011405					
	Method: SW-846 8270				Level: (low/med ) LOW										
	EPA SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	SMC5	#	SMC6	#	TOT OUT	
1.	T-15-F	73		74	П	88		73		72		69	П	0	
2.	T-15-F MS	80		86		83		74		77		73	T	0	
3.	T-15-F MSD	76		77		85		74		74		67		0	
4.	T-21-F	82		85	$\Box$	88		70		-71		62		0	
5.	T-21-F	0	D	0	D	0	D	0	D	0	D	0	D	0	
6.	NC-0-0.3	75		78		68		67		70		64		0	
7.	T-2-WEST	77		77		79		75		75		65		0	
8.	T-6-FLOOR	79		82		84		75		77		65	$\Box$	0	
9.	T-6-EAST	76		77		78		78		77		66		0	
10.	T-6-SOUTH	84		82		80		79		. 78		71		0	
11.	T-6-NORTH	81		80		79		78		76 /		64		0	
12.	BLIND DUP	82		81		79		79		78		68		0	
13.	SC-W	83		80		71		73		75		72		0	
14.	SC-E	74		77	$\Box$	80		75		73		59		0	
15.	MB912490	75		76		84		70		72		66		0	
16.	LCS912491	83		89		85		78		80		85		0	
17.	LCSD912492	82		90	$\Box$	91		81		79	11	77		0	

		CONTROL	LIMITS
SMC 1	Nitrobenzene-d5	46	123
SMC 2	2-Fluorobiphenyl	47	127
SMC 3	Terphenyl-d14	38	167
SMC 4	Phenol-d5	43	123
SMC 5	2-Fluorophenol	51	119
SMC 6	2,4,6-Tribromophenol	44	121

[#] Column to be used to flag recovery limits

^{*} Value outside of contract required limits

D Surrogate diluted out

## 3C WATER SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL								
Lab Code: LA024	Case N	o.:	SAS	No.:	SDG I	No.: 211	011405	5
Contract:			Metho	od: SW-846 8270				
Prep Batch: 448924	Analytic	al Batch.:	448983					
Spike HSN: 912530 COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	REC FLAG	QC.	LIMITS
1,2 Diphenylhydrazine	mg/L	1 .1	T 0	.096	96	Т	20	- 120
2,4,5-Trichlorophenol	mg/L	.1	0	.094	94		60	- 120
2,4,6-Trichlorophenol	mg/L	.1	0	.085	85		59	- 120
2,4-Dichlorophenol	mg/L	.1	0	.086	86		55	- 120
2,4-Dimethylphenol	mg/L	.1	0	.085	85		14	- 122
2,4-Dinitrophenol	mg/L	.1	0	.08	80		18	- 137
2,4-Dinitrotoluene	mg/L	.1	0	.093	93		37	- 138
2,6-Dinitrotoluene	mg/L	.1	0	.098	98		56	- 128
2-Chloronaphthalene	mg/L	.1	0	.096	96	1	48	- 120
2-Chlorophenol	mg/L	.1	0	.085	85		42	- 120
2-Methyl-4,6-dinitrophenol	mg/L	.1	0	.079	79		49	- 120
2-Methylnaphthalene	mg/L	.1	0	.087	87		40	- 120
2-Nitroaniline	mg/L	.1	0	.089	89		48	- 120
2-Nitrophenol	mg/L	.1	0	.09	90		59	- 120
3,3'-Dichlorobenzidine	mg/L	.1	0	.09	90		51	- 154
3-Nitroaniline	mg/L	.1	0	.089	89		34	- 120
4-Bromophenyl-phenylether	mg/L	.1	0	.105	105		61	- 120
4-Chloro-3-methylphenol	mg/L	.1	0	.082	82		44	- 120
4-Chloroaniline	mg/L	.1	0	.1	100		30	- 120
4-Chlorophenyl-phenylether	mg/L	.099	0	.099	100		52	- 120
4-Nitroaniline	mg/L	.101	0	.091	90		38	- 120
4-Nitrophenol	mg/L	.1	0	.043	43		10	- 120
Acenaphthene	mg/L	.1	0	.101	101		52	- 120
Acenaphthylene	mg/L	.1	0	.117	117		55	- 120
Acetophenone	mg/L	.1	0	.096	96		60	- 124
Aniline	mg/L	.1	0	.176	176	*	19	- 124
Anthracene	mg/L	.1	0	.106	106		58	- 120
Atrazine (Aatrex)	mg/L	.1	0	.138	138		39	- 148
Benzaldehyde	mg/L	.1	0	.474	474	*	40	- 118
Benzo(a)anthracene	mg/L	.1	0	.104	104		56	- 120
Benzo(a)pyrene	mg/L	.1	0	.11	110		56	- 120
Benzo(b)fluoranthene	mg/L	.1	0	.098	98		55	- 120
Benzo(g,h,i)perylene	mg/L	.1	0	.09	90		44	- 132
Benzo(k)fluoranthene	mg/L	.1	0	.108	108		49	- 121
Benzoic acid	mg/L	.1	0	.034	34		10	- 120

RPD: 0 out of 69 outside limits

Spike Recovery: 4 out of 138 outside limits

### 3C WATER SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL										
Lab Code: LA024	Case No	).:		SAS No	0.:	SDG No.	: 21	1011405	5	
Contract:				Method	: SW-846 8270					
Prep Batch: <u>448924</u>	Analytica	al Batch.:	<u>448983</u>							
Benzyl alcohol	mg/L	.1	C		.086	86		32	-	120
Biphenyl	mg/L	.1	C	)	.091	91		39	-	122
Bis(2-Chloroethoxy)methane	mg/L	.1	C	)	.096	96		56	-	120
Bis(2-Chloroethyl)ether	mg/L	.1			.096	96		37	-	120
Butylbenzylphthalate	mg/L	.1	C		.097	97		62	-	122
Caprolactam	mg/L	.1	C		.031	31		10	-	120
Carbazole	mg/L	.1	C	)	.09	90		47	-	120
Chrysene	mg/L	.1	C		.103	103		58	-	120
Di-n-butylphthalate	mg/L	.1	C	)	.098	98		62	-	122
Di-n-octylphthalate	mg/L	.1	C	)	.084	84		56	-	133
Dibenz(a,h)anthracene	mg/L	.1	C	)	.085	85		50	-	138
Dibenzofuran	mg/L	.1	C		.093	93		54	-	120
Diethylphthalate	mg/L	.1	C	)	.101	101		56	-	120
Dimethyl-phthalate	mg/L	.1	C	)	.1	100		59	-	120
Fluoranthene	mg/L	.1	C	)	.096	96		55	-	120
Fluorene	mg/L	.1	C		.101	101		54	-	120
Hexachlorobenzene	mg/L	.1	C	)	.097	97		61	-	120
Hexachlorocyclopentadiene	mg/L	.1	C		.113	113		16	-	120
Hexachloroethane	mg/L	.1	C	) .	.087	87		21	-	120
Indeno(1,2,3-cd)pyrene	mg/L	.1	C	)	.082	82		43	-	133
Isophorone	mg/L	.1	C		.094	94		53	-	120
N-Nitroso-di-n-propylamine	mg/L	.1	C	)	.094	94		47	-	120
N-Nitrosodimethylamine	mg/L	.1	C		.073	73		12	-	120
N-Nitrosodiphenylamine	mg/L	.098	C	)	.109	111		58	-	121
Nitrobenzene	mg/L	.1	C		.095	95		53	-	120
Pentachlorophenol	mg/L	.1	C	)	.075	75		25	-	158
Phenanthrene	mg/L	.1	C	)	.105	105		58	-	120
Phenol	mg/L	.1	C	)	.047	47		16	-	120
Pyrene	mg/L	.1	C	)	.116	116		54	-	120
Pyridine	mg/L	.1	C	)	.043	43		10	-	120
bis(2-Chloroisopropyl)ether	mg/L	.1	C	)	.094	94		47	-	120
bis(2-ethylhexyl)phthalate	mg/L	.1	· C		.089	89		56	-	132
m,p-Cresol	mg/L	.1	C		.073	73		24	-	120
o-Cresol	mg/L	.1	C		.077	77		31	-	120

RPD :	0	out of	69		side lim	its
Spike	Recover	v:	4	out of	138	outside limits

# 3C WATER SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name:	GCAL					
Lab Code:	LA024	Case No.:	SAS No.:		SDG No.:	211011405
Contract:			Method:	SW-846 8270		
Prep Batch:	448924	Analytical Batch: 448983				

Spike Dupe HSN: 912531

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG		LIMITS RPD
1,2 Diphenylhydrazine	mg/L	.1	.089	89		8		20 - 120	0 - 50
2,4,5-Trichlorophenol	mg/L	.1	.087	87		8		60 - 120	0 - 50
2,4,6-Trichlorophenol	mg/L	.1	.08	80		6		59 - 120	0 - 50
2,4-Dichlorophenol	mg/L	1	.082	82		5		55 - 120	0 - 50
2,4-Dimethylphenol	mg/L	.1	.082	82		4		14 - 122	0 - 50
2,4-Dinitrophenol	mg/L	.1	.077	77		4		18 - 137	0 - 50
2,4-Dinitrotoluene	mg/L	.1	.088	88		6		37 - 138	0 - 30
2,6-Dinitrotoluene	mg/L	.1	.092	92		6		56 - 128	0 - 50
2-Chloronaphthalene	mg/L	.1	.092	92		4		48 - 120	0 - 50
2-Chlorophenol	mg/L	.1	.085	85		0		42 - 120	0 - 30
2-Methyl-4,6-dinitrophenol	mg/L	.1	.074	74		7		49 - 120	0 - 50
2-Methylnaphthalene	mg/L	.1	.084	84		4		40 - 120	0 - 50
2-Nitroaniline	mg/L	.1	.086	86		3		48 - 120	0 - 50
2-Nitrophenol	mg/L	.1	.086	86		5		59 - 120	0 - 50
3,3'-Dichlorobenzidine	mg/L	.1	.087	87		3		51 - 154	0 - 50
3-Nitroaniline	mg/L	.1	.085	85		5		34 - 120	0 - 50
4-Bromophenyl-phenylether	mg/L	.1	.101	101	1	4		61 - 120	0 - 50
4-Chloro-3-methylphenol	mg/L	.1	.08	80		2		44 - 120	0 - 30
4-Chloroaniline	mg/L	.1	.099	99		1		30 - 120	0 - 50
4-Chlorophenyl-phenylether	mg/L	.099	.094	95		5		52 - 120	0 - 50
4-Nitroaniline	mg/L	.101	.09	89		1		38 - 120	0 - 50
4-Nitrophenol	mg/L	.1	.041	41		5		10 - 120	0 - 30
Acenaphthene	mg/L	.1	.097	97		4		52 - 120	0 - 30
Acenaphthylene	mg/L	.1	.11	110		6		55 - 120	0 - 50
Acetophenone	mg/L	.1	.095	95		1		60 - 124	0 - 50
Aniline	mg/L	.1	.181	181	*	3		19 - 124	0 - 50
Anthracene	mg/L	.1	.101	101		5		58 - 120	0 - 50
Atrazine (Aatrex)	mg/L	.1	.136	136		1		39 - 148	0 - 50
Benzaldehyde	mg/L	.1	.469	469	*	1		40 - 118	0 - 50
Benzo(a)anthracene	mg/L	.1	.1	100		4		56 - 120	0 - 50
Benzo(a)pyrene	mg/L	.1	.105	105		5		56 - 120	0 - 50
Benzo(b)fluoranthene	mg/L	.1	.099	99		1		55 - 120	0 - 50
Benzo(g,h,i)perylene	mg/L	.1	.085	85		6		44 - 132	0 - 50
Benzo(k)fluoranthene	mg/L	.1	.1	100		8		49 - 121	0 - 50
Benzoic acid	mg/L	.1	.032	32		6		10 - 120	0 - 50

RPD:	: 0	out o	f 6	9 out	side lim	its
Snike	Recover	ν.	4	out of	138	outside limits

## 3C WATER SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL						
Lab Code: LA024	Case No.:			SAS No.:	<u> </u>	DG No.: 211011405
Contract:				Method: SW-84	6 8270	
Prep Batch: <u>448924</u>	Analytical	Batch.:	448983			
Benzyl alcohol	mg/L	.1	.085	85	1	32 - 120 0 - 50
Biphenyl	mg/L	.1	.087	87	4	39 - 122 0 - 50
Bis(2-Chloroethoxy)methane	mg/L	.1	.094	94	2	56 - 120 0 - 50
Bis(2-Chloroethyl)ether	mg/L	.1	.096	96	0	37 - 120 0 - 50
Butylbenzylphthalate	mg/L	.1	.096	96	1	62 - 122 0 - 50
Caprolactam	mg/L	.1	.029	29	7	10 - 120 0 - 50
Carbazole	mg/L	.1	.088	88	2	47 - 120 0 - 50
Chrysene	mg/L	.1	.097	97	6	58 - 120 0 - 50
Di-n-butylphthalate	mg/L	.1	.096	96	2	62 - 122 0 - 50
Di-n-octylphthalate	mg/L	.1	.083	83	1	56 - 133 0 - 50
Dibenz(a,h)anthracene	mg/L	.1	.086	86	1	50 - 138 0 - 50
Dibenzofuran	mg/L	.1	.091	91	2	54 - 120 0 - 50
Diethylphthalate	mg/L	.1	.096	96	5	56 - 120 0 - 50
Dimethyl-phthalate	mg/L	.1	.096	96	4	59 - 120 0 - 50
Fluoranthene	mg/L	.1	.095	95	1	55 - 120 0 - 50
Fluorene	mg/L	.1	.096	96	5	54 - 120 0 - 50
Hexachlorobenzene	mg/L	.1	.091	91	6	61 - 120 0 - 50
Hexachlorocyclopentadiene	mg/L	.1	.109	109	4	16 - 120 0 - 50
Hexachloroethane	mg/L	.1	.085	85	2	21 - 120 0 - 50
Indeno(1,2,3-cd)pyrene	mg/L	.1	.074	74	10	43 - 133 0 - 50
Isophorone	mg/L	.1	.091	91	3	53 - 120 0 - 50
N-Nitroso-di-n-propylamine	mg/L	.1	.095	95	1	47 - 120 0 - 30
N-Nitrosodimethylamine	mg/L	.1	.073	73	0	12 - 120 0 - 50
N-Nitrosodiphenylamine	mg/L	.098	.102	104	7	58 - 121 0 - 50
Nitrobenzene	mg/L	.1	.09	90	5	53 - 120 0 - 50
Pentachlorophenol	mg/L	.1	.074	74	1	25 - 158 0 - 30
Phenanthrene	mg/L	.1	.097	97	8	58 - 120 0 - 50
Phenol	mg/L	.1	.047	47	0	16 - 120 0 - 30
Pyrene	mg/L	.1	.113	113	3	54 - 120 0 - 30
Pyridine	mg/L	.1	.046	46	7	10 - 120 0 - 50
bis(2-Chloroisopropyl)ether	mg/L	.1	.095	95	1	47 - 120 0 - 50
bis(2-ethylhexyl)phthalate	mg/L	.1	.092	92	3	56 - 132 0 - 50
m,p-Cresol	mg/L	.1	.072	72	1	24 - 120 0 - 50
o-Cresol	mg/L	.1	.078	78	1	31 - 120 0 - 50

RPD:	0	out of			side lim	its			
Snike R	20012		<i>A</i>	out of	138	outside limits			

FORM III SV-1

Lab Name:	GCAL		Sample ID T-15-F	
Lab Code:	LA024	Case No.:	SAS No.:	SDG No.: 211011405
Contract:		Analytical Method: SW-846	8270	
Prep Batch:	<u>448916</u>	Analytical Batch.: 448983		

Spike HSN: 21101140502 COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC.	LIMITS
1,2 Diphenylhydrazine	mg/kg	3.98	0	3.52	89	<u> </u>	49	- 120
2,4,5-Trichlorophenol	mg/kg	3.98	1 0	3.19	80	+-+	47	- 120
2,4,6-Trichlorophenol	mg/kg	3.98	0	2.96	74		46	- 120
2,4-Dichlorophenol	mg/kg	3.98	0	2.96	74	+-+	47	- 120
2,4-Dichlorophenol		3.98	0	3.04	77	+-+	47	
	mg/kg	3.98	0	2.52	63	+-+		
2,4-Dinitrophenol	mg/kg		0	3.27	82		14	
2,4-Dinitrotoluene	mg/kg	3.98					45	- 120
2,6-Dinitrotoluene	mg/kg	3.98	0	3.47	87		47	- 120
2-Chloronaphthalene	mg/kg	3.98	0	3.57	90	1	52	- 120
2-Chlorophenol	mg/kg	3.98	0	2.97	75		48	- 120
2-Methyl-4,6-dinitrophenol	mg/kg	3.98	0	2.94	74		29	- 120
2-Methylnaphthalene	mg/kg	3.98	0	3.21	81		43	- 120
2-Nitroaniline	mg/kg	3.98	0	3.25	82		44	- 120
2-Nitrophenol	mg/kg	3.98	0	3.28	83		49	- 120
3,3'-Dichlorobenzidine	mg/kg	3.98	0	2.85	72		35	- 120
3-Nitroaniline	mg/kg	3.98	0	2.33	59		20	- 120
4-Bromophenyl-phenylether	mg/kg	3.98	0	3.89	98		51	- 125
4-Chloro-3-methylphenol	mg/kg	3.98	0	2.83	71		46	- 120
4-Chloroaniline	mg/kg	3.98	0	1.83	46		20	- 120
4-Chlorophenyl-phenylether	mg/kg	3.94	0	3.47	88		50	- 120
4-Nitroaniline	mg/kg	4.02	0	2.89	72		32	- 120
4-Nitrophenol	mg/kg	3.98	0	2.81	71		32	- 120
Acenaphthene	mg/kg	3.98	0	3.67	92		50	- 120
Acenaphthylene	mg/kg	3.98	0	4.19	105		53	- 120
Acetophenone	mg/kg	3.98	0	3.26	82		49	- 120
Aniline	mg/kg	3.98	0	2.78	70		21	- 131
Anthracene	mg/kg	3.98	0	3.9	98		52	- 120
Atrazine (Aatrex)	mg/kg	3.98	0	5.17	130		43	- 150
Benzaldehyde	mg/kg	3.98	0	.334	8	*	25	- 127
Benzo(a)anthracene	mg/kg	3.98	0	3.74	94	+-+	48	- 120
Benzo(a)pyrene	mg/kg	3.98	0	4.04	101	+	44	- 120
Benzo(b)fluoranthene	mg/kg	3.98	0	3.55	89	+-+	31	- 130
Benzo(g,h,i)perylene	mg/kg	3.98	0	3.32	83	++	29	- 134
Benzo(k)fluoranthene	mg/kg	3.98	0	3.61	91	+	36	- 122
Benzoic acid	mg/kg	3.98	0	2.23	56	+	14	- 124
Benzyl alcohol	mg/kg	3.98	0	3.21	81	+-+	47	- 120

RPD :	0	out of		-	utside lin	nits
Spike Re	covery	/:	2	out of	138	outside limits

Lab Name: GCAL		Sample II	D T-15-F		
Lab Code: LA024	Case No.:	SAS No.:		SDG No.:	211011405
Contract:	Analytical Me	thod: SW-846 8270			
Prep Batch: <u>448916</u>	Analytical Batch.:	<u>448983</u>			
Biphenyl	mg/kg 3.98	0	3.22	81	46 - 120
Bis(2-Chloroethoxy)methane	mg/kg 3.98	0	3.49	88	51 - 120
Bis(2-Chloroethyl)ether	mg/kg 3.98	0	3.39	85	46 - 120
Butylbenzylphthalate	mg/kg 3.98	0	3.67	92	46 - 130
Caprolactam	mg/kg 3.98	0	3.12	78	34 - 120
Carbazole	mg/kg 3.98	0	3.39	85	47 - 120
Chrysene	mg/kg 3.98	0	3.57	90	51 - 120
Di-n-butylphthalate	mg/kg 3.98	0	3.78	95	50 - 120
Di-n-octylphthalate	mg/kg 3.98	0	3.57	90	41 - 122
Dibenz(a,h)anthracene	mg/kg 3.98	0	3.32	83	27 - 129
Dibenzofuran	mg/kg 3.98	0	3.32	83	50 - 120
Diethylphthalate	mg/kg 3.98	0	3.61	91	36 - 120
Dimethyl-phthalate	mg/kg 3.98	0	3.62	91	50 - 120
Fluoranthene	mg/kg 3.98	.017	3.83	96	39 - 120
Fluorene	mg/kg 3.98	0	3.61	91	48 - 120
Hexachlorobenzene	mg/kg 3.98	0	3.45	87	48 - 120
Hexachlorocyclopentadiene	mg/kg 3.98	0	4.18	105	23 - 121
Hexachloroethane	mg/kg 3.98	0	2.94	74	40 - 120
Indeno(1,2,3-cd)pyrene	mg/kg 3.98	0	3.32	83	43 - 132
Isophorone	mg/kg 3.98	0 .	3.43	86	49 - 120
N-Nitroso-di-n-propylamine	mg/kg 3.98	0	3.43	86	46 - 120
N-Nitrosodimethylamine	mg/kg 3.98	0	3.18	80	34 - 126
N-Nitrosodiphenylamine	mg/kg 3.9	0	3.88	99	54 - 125
Nitrobenzene	mg/kg 3.98	0	3.34	84	45 - 120
Pentachlorophenol	mg/kg 3.98	0	2.6	65	30 - 124
Phenanthrene	mg/kg 3.98	.011	3.67	92	53 - 120
Phenol	mg/kg 3.98	0	2.95	74	42 - 120
Pyrene	mg/kg 3.98	.021	3.9	98	38 - 136
Pyridine	mg/kg 3.98	0	2.24	56	11 - 120
bis(2-Chloroisopropyl)ether	mg/kg 3.98	0	3.28	83	46 - 120
bis(2-ethylhexyl)phthalate	mg/kg 3.98	0	3.52	89	46 - 129
m,p-Cresol	mg/kg 3.98	0	2.87	72	46 - 120
o-Cresol	mg/kg 3.98	0	2.95	74	46 - 120

RPD	. 0	out of	6	9	outsi	de lin	nits	
Spike	Recover	v:	2	out	of	138	outside I	imit

Lab Name:	GCAL		Sample ID T-15-F					
Lab Code:	LA024	Case No.:	SAS No.:	SDG No.:	211011405			
Contract:		Analytical Method: SW-846	8 8270					
Prep Batch:	<u>448916</u>	Analytical Batch.: 448983						

Spike Dupe HSN: 21101140503

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAC	% RPD	RPD FLAG		LIMITS RPD
1,2 Diphenylhydrazine	mg/kg	3.98	3.19	80		10		49 - 120	0 - 50
2,4,5-Trichlorophenol	mg/kg	3.98	2.93	74		9		47 - 120	0 - 40
2,4,6-Trichlorophenol	mg/kg	3.98	2.63	66		12		46 - 120	0 - 40
2,4-Dichlorophenol	mg/kg	3.98	2.83	71		5		47 - 120	0 - 40
2,4-Dimethylphenol	mg/kg	3.98	2.84	71		7		47 - 120	0 - 40
2,4-Dinitrophenol	mg/kg	3.98	2.16	54		15		14 - 120	0 - 49
2,4-Dinitrotoluene	mg/kg	3.98	3.06	77		7		45 - 120	0 - 40
2,6-Dinitrotoluene	mg/kg	3.98	3.19	80		9		47 - 120	0 - 40
2-Chloronaphthalene	mg/kg	3.98	3.13	79		13		52 - 120	0 - 40
2-Chlorophenol	mg/kg	3.98	2.81	71		6		48 - 120	0 - 40
2-Methyl-4,6-dinitrophenol	mg/kg	3.98	2.45	62		18		29 - 120	0 - 40
2-Methylnaphthalene	mg/kg	3.98	3.01	76		7		43 - 120	0 - 40
2-Nitroaniline	mg/kg	3.98	2.91	73		11		44 - 120	0 - 40
2-Nitrophenol	mg/kg	3.98	3.04	77		8		49 - 120	0 - 40
3,3'-Dichlorobenzidine	mg/kg	3.98	2.53	64		12		35 - 120	0 - 40
3-Nitroaniline	mg/kg	3.98	2.08	52		11		20 - 120	0 - 46
4-Bromophenyl-phenylether	mg/kg	3.98	3.49	88		11		51 - 125	0 - 40
4-Chloro-3-methylphenol	mg/kg	3.98	2.83	71		0		46 - 120	0 - 40
4-Chloroaniline	mg/kg	3.98	1.73	44		5		20 - 120	0 - 50
4-Chlorophenyl-phenylether	mg/kg	3.94	3.15	80		10		50 - 120	0 - 40
4-Nitroaniline	mg/kg	4.02	2.66	66		8		32 - 120	0 - 40
4-Nitrophenol	mg/kg	3.98	2.61	66		7		32 - 120	0 - 40
Acenaphthene	mg/kg	3.98	3.26	82		12		50 - 120	0 - 40
Acenaphthylene	mg/kg	3.98	3.73	94		12		53 - 120	0 - 40
Acetophenone	mg/kg	3.98	3.09	78		5		49 - 120	0 - 50
Aniline	mg/kg	3.98	2.7	68		3		21 - 131	0 - 40
Anthracene	mg/kg	3.98	3.51	88		11		52 - 120	0 - 40
Atrazine (Aatrex)	mg/kg	3.98	4.68	118		10		43 - 150	0 - 50
Benzaldehyde	mg/kg	3.98	.412	10	*	21		25 - 127	0 - 50
Benzo(a)anthracene	mg/kg	3.98	3.32	83		12		48 - 120	0 - 40
Benzo(a)pyrene	mg/kg	3.98	3.44	86		16		44 - 120	0 - 40
Benzo(b)fluoranthene	mg/kg	3.98	2.82	71		23		31 - 130	0 - 40
Benzo(g,h,i)perylene	mg/kg	3.98	2.73	69		19		29 - 134	0 - 40
Benzo(k)fluoranthene	mg/kg	3.98	3.62	91		.3		36 - 122	0 - 40
Benzoic acid	mg/kg	3.98	1.87	47		17		14 - 124	0 - 40
Benzyl alcohol	mg/kg	3.98	3.12	78		3		47 - 120	0 - 40

RPD: 0	out of	69		side limi	its
Spike Recover	ry:	2	out of	138	outside limits

Lab Name: GCAL			Sample ID	T-15-F	
Lab Code: LA024	Case No.:		SAS No.:		SDG No.: 211011405
Contract:	Analytical Met	thod: SW-846	6 8270		
Prep Batch: <u>448916</u>	Analytical Batch.:	448983			
Biphenyl	mg/kg 3.98	3.1	78	4	46 - 120 0 - 50
Bis(2-Chloroethoxy)methane	mg/kg 3.98	3.3	83	6	51 - 120 0 - 40
Bis(2-Chloroethyl)ether	mg/kg 3.98	3.22	81	5	46 - 120 0 - 40
Butylbenzylphthalate	mg/kg 3.98	3.59	90	2	46 - 130 0 - 40
Caprolactam	mg/kg 3.98	3.21	81	3	34 - 120 0 - 50
Carbazole	mg/kg 3.98	2.98	75	13	47 - 120 0 - 40
Chrysene	mg/kg 3.98	3.38	85	5	51 - 120 0 - 40
Di-n-butylphthalate	mg/kg 3.98	3.4	86	11	50 - 120 0 - 40
Di-n-octylphthalate	mg/kg 3.98	3.3	83	8	41 - 122 0 - 40
Dibenz(a,h)anthracene	mg/kg 3.98	2.85	72	15	27 - 129 0 - 40
Dibenzofuran	mg/kg 3.98	2.98	75	11	50 - 120 0 - 40
Diethylphthalate	mg/kg 3.98	3.32	83	8	36 - 120 0 - 40
Dimethyl-phthalate	mg/kg 3.98	3.31	83	9	50 - 120 0 - 40
Fluoranthene	mg/kg 3.98	3.28	82	15	39 - 120 0 - 40
Fluorene	mg/kg 3.98	3.2	80	12	48 - 120 0 - 40
Hexachlorobenzene	mg/kg 3.98	3.03	76	13	48 - 120 0 - 40
Hexachlorocyclopentadiene	mg/kg 3.98	3.4	86	20	23 - 121 0 - 40
Hexachloroethane	mg/kg 3.98	2.84	71	3	40 - 120 0 - 40
Indeno(1,2,3-cd)pyrene	mg/kg 3.98	2.61	66	24	43 - 132 0 - 40
Isophorone	mg/kg 3.98	3.26	82	5	49 - 120 0 - 40
N-Nitroso-di-n-propylamine	mg/kg 3.98	3.25	82	5	46 - 120 0 - 40
N-Nitrosodimethylamine	mg/kg 3.98	2.9	73	9	34 - 126 0 - 40
N-Nitrosodiphenylamine	mg/kg 3.9	3.53	91	9	54 - 125 0 - 40
Nitrobenzene	mg/kg 3.98	3.08	77	8	45 - 120 0 - 40
Pentachlorophenol	mg/kg 3.98	2.39	60	9	30 - 124 0 - 40
Phenanthrene	mg/kg 3.98	3.32	83	10	53 - 120 0 - 40
Phenol	mg/kg 3.98	2.76	69	7	42 - 120 0 - 40
Pyrene	mg/kg 3.98	3.98	99	2	38 - 136 0 - 40
Pyridine	mg/kg 3.98	2.45	62	9	11 - 120 0 - 40
bis(2-Chloroisopropyl)ether	mg/kg 3.98	3.16	80	4	46 - 120 0 - 40
bis(2-ethylhexyl)phthalate	mg/kg 3.98	3.4	86	3	46 - 129 0 - 40
m,p-Cresol	mg/kg 3.98	2.77	70	3	46 - 120 0 - 40
o-Cresol	mg/kg 3.98	2.76	69	7	46 - 120 0 - 40

RPD: 0 out	of	69 out	side lim	its
Spike Recovery:	2	out of	138	outside limits

Lab Name:	GCAL	***************************************	***************************************				
Lab Code:	LA024	Case No.:		SAS No.:	 SDG No.:	211011405	
Contract:			thod: SW-846	8270			
Prep Batch:	448916	Analytical Batch.:	448983				

					1.00.07		
Spike HSN: 912491					1000	LCS % REC	
COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	FLAG QC. LIMITS	
1,2 Diphenylhydrazine	mg/kg	3.31	0	2.91	88	49 - 120	
2,4,5-Trichlorophenol	mg/kg	3.31	0	2.66	80	47 - 120	
2,4,6-Trichlorophenol	mg/kg	3.31	0	2.43	73	46 - 120	
2,4-Dichlorophenol	mg/kg	3.31	0	2.53	76	47 - 120	
2,4-Dimethylphenol	mg/kg	3.31	0	2.52	76	47 - 120	
2,4-Dinitrophenol	mg/kg	3.31	0	2.35	71	14 - 120	
2,4-Dinitrotoluene	mg/kg	3.31	0	2.71	82	45 - 120	
2,6-Dinitrotoluene	mg/kg	3.31	0	2.91	88	47 - 120	
2-Chloronaphthalene	mg/kg	3.31	0 -	2.91	88	52 - 120	
2-Chlorophenol	mg/kg	3.31	0	2.52	76	48 - 120	
2-Methyl-4,6-dinitrophenol	mg/kg	3.31	0	2.46	74	29 - 120	
2-Methylnaphthalene	mg/kg	3.31	0	2.73	82	43 - 120	
2-Nitroaniline	mg/kg	3.31	0	2.63	79	44 - 120	
2-Nitrophenol	mg/kg	3.31	0	2.67	81	49 - 120	
3,3'-Dichlorobenzidine	mg/kg	3.31	0	1.19	36	35 - 120	
3-Nitroaniline	mg/kg	3.31	0	1.2	36 -	20 - 120	
4-Bromophenyl-phenylether	mg/kg	3.31	0	3.33	101	51 - 125	
4-Chloro-3-methylphenol	mg/kg	3.31	0	2.44	74	46 - 120	
4-Chloroaniline	mg/kg	3.31	0	.764	23	20 - 120	
4-Chlorophenyl-phenylether	mg/kg	3.28	0	2.98	91	50 - 120	
4-Nitroaniline	mg/kg	3.34	0	2.36	71	32 - 120	
4-Nitrophenol	mg/kg	3.31	0	2.39	72	32 - 120	
Acenaphthene	mg/kg	3.31	0	3.03	92	50 - 120	
Acenaphthylene	mg/kg	3.31	0	3.44	104	53 - 120	
Acetophenone	mg/kg	3.31	0	2.8	85	49 - 120	
Aniline	mg/kg	3.31	0	1.04	31	21 - 131	
Anthracene	mg/kg	3.31	0	3.24	98	52 - 120	
Atrazine (Aatrex)	mg/kg	3.31	0	4.23	128	43 - 150	
Benzaldehyde	mg/kg	3.31	0	.282	9	* 25 - 127	
Benzo(a)anthracene	mg/kg	3.31	0	3.11	94	48 - 120	
Benzo(a)pyrene	mg/kg	3.31	0	3.32	100	44 - 120	
Benzo(b)fluoranthene	mg/kg	3.31	0	3.08	93	31 - 130	
Benzo(g,h,i)perylene	mg/kg	3.31	0	2.57	78	29 - 134	
Benzo(k)fluoranthene	mg/kg	3.31	0	3.17	96	36 - 122	
Benzoic acid	mg/kg	3.31	0	2.72	82	14 - 124	
Benzyl alcohol	mg/kg	3.31	0	2.68	81	47 - 120	
		l					

RPD:		1	out of	F	69	outs	side lim	its
Spike	Re	cover	y:	2	out	of	138	outside limits

Lab Name: GCAL	***************************************					
Lab Code: LA024	Case No	).:	SAS	No.:	SDG No.:	211011405
Contract:	Ana	alytical Met	hod: SW-846 8270			
Prep Batch: <u>448916</u>	Analytica	al Batch.:	<u>448983</u>		•	
Biphenyl	mg/kg	3.31	0	2.83	85	46 - 120
Bis(2-Chloroethoxy)methane	mg/kg	3.31	0	2.93	88	51 - 120
Bis(2-Chloroethyl)ether	mg/kg	3.31	0	2.83	85	46 - 120
Butylbenzylphthalate	mg/kg	3.31	0	2.89	87	46 - 130
Caprolactam	mg/kg	3.31	0	2.84	86	34 - 120
Carbazole	mg/kg	3.31	0	2.78	84	47 - 120
Chrysene	mg/kg	3.31	0	2.94	89	51 - 120
Di-n-butylphthalate	mg/kg	3.31	0	3.17	96	50 - 120
Di-n-octylphthalate	mg/kg	3.31	0	2.71	82	41 - 122
Dibenz(a,h)anthracene	mg/kg	3.31	0	2.56	77	27 - 129
Dibenzofuran	mg/kg	3.31	0	2.81	85	50 - 120
Diethylphthalate	mg/kg	3.31	0	3.06	92	36 - 120
Dimethyl-phthalate	mg/kg	3.31	0	2.97	90	50 - 120
Fluoranthene	mg/kg	3.31	0	3.07	93	39 - 120
Fluorene	mg/kg	3.31	0	3.02	91	48 - 120
Hexachlorobenzene	mg/kg	3.31	0	2.96	89	48 - 120
Hexachlorocyclopentadiene	mg/kg	3.31	0	3.56	108	23 - 121
Hexachloroethane	mg/kg	3.31	. 0	2.54	77	40 - 120
Indeno(1,2,3-cd)pyrene	mg/kg	3.31	0	2.32	70	43 - 132
Isophorone	mg/kg	3.31	0	2.91	88	49 - 120
N-Nitroso-di-n-propylamine	mg/kg	3.31	0	2.9	88	46 - 120
N-Nitrosodimethylamine	mg/kg	3.31	0	2.67	81	34 - 126
N-Nitrosodiphenylamine	mg/kg	3.25	0	3.23	100	54 - 125
Nitrobenzene	mg/kg	3.31	0	2.79	84	45 - 120
Pentachlorophenol	mg/kg	3.31	0	2.38	72	30 - 124
Phenanthrene	mg/kg	3.31	0	3.11	94	53 - 120
Phenol	mg/kg	3.31	0	2.37	72	42 - 120
Pyrene	mg/kg	3.31	0	3.25	98	38 - 136
Pyridine	mg/kg	3.31	0	2.02	61	11 - 120
bis(2-Chloroisopropyl)ether	mg/kg	3.31	0	2.83	85	46 - 120
bis(2-ethylhexyl)phthalate	mg/kg	3.31	0	2.81	85	46 - 129
m,p-Cresol	mg/kg	3.31	0	2.47	75	46 - 120
o-Cresol	mg/kg	3.31	0	2.46	74	46 - 120

RPD:	1	out	of	69	outs	ide lim	its	
Spike	Recover	v:		2 ou	t of	138	outside limi	ts

Lab Name:	GCAL				
Lab Code:	LA024	Case No.:	SAS No.:	SDG No.:	211011405
Contract:		Analytical Method: S	W-846 8270		
Prep Batch:	<u>448916</u>	Analytical Batch.: 448983			

Spike Dupe HSN: 912492

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG		LIMITS RPD
1,2 Diphenylhydrazine	mg/kg	3.3	3.04	92	TTT	4	ТП	49 - 120	0 - 50
2,4,5-Trichlorophenol	mg/kg	3.3	2.76	84		4		47 - 120	0 - 40
2,4,6-Trichlorophenol	mg/kg	3.3	2.47	75		2		46 - 120	0 - 40
2,4-Dichlorophenol	mg/kg	3.3	2.56	78		1		47 - 120	0 - 40
2,4-Dimethylphenol	mg/kg	3.3	2.48	75		2		47 - 120	0 - 40
2,4-Dinitrophenol	mg/kg	3.3	2.27	69		3		14 - 120	0 - 49
2,4-Dinitrotoluene	mg/kg	3.3	2.65	80		2		45 - 120	0 - 40
2,6-Dinitrotoluene	mg/kg	3.3	2.83	86		3		47 - 120	0 - 40
2-Chloronaphthalene	mg/kg	3.3	2.98	90		2		52 - 120	0 - 40
2-Chlorophenol	mg/kg	3.3	2.6	79		3		48 - 120	0 - 40
2-Methyl-4,6-dinitrophenol	mg/kg	3.3	2.53	77		3		29 - 120	0 - 40
2-Methylnaphthalene	mg/kg	3.3	2.76	84		1		43 - 120	0 - 40
2-Nitroaniline	mg/kg	3.3	2.67	81		2		44 - 120	0 - 40
2-Nitrophenol	mg/kg	3.3	2.75	83		3		49 - 120	0 - 40
3,3'-Dichlorobenzidine	mg/kg	3.3	1.49	45	$\top$	22		35 - 120	0 - 40
3-Nitroaniline	mg/kg	3.3	1.34	41		11		20 - 120	0 - 46
4-Bromophenyl-phenylether	mg/kg	3.3	3.44	104		3		51 - 125	0 - 40
4-Chloro-3-methylphenol	mg/kg	3.3	2.43	74		.4		46 - 120	0 - 40
4-Chloroaniline	mg/kg	3.3	.982	30		25	1 1	20 - 120	0 - 50
4-Chlorophenyl-phenylether	mg/kg	3.27	2.94	90		1		50 - 120	0 - 40
4-Nitroaniline	mg/kg	3.33	2.26	68		4		32 - 120	0 - 40
4-Nitrophenol	mg/kg	3.3	2.26	68		6		32 - 120	0 - 40
Acenaphthene	mg/kg	3.3	3.03	92		0		50 - 120	0 - 40
Acenaphthylene	mg/kg	3.3	3.45	105		.3		53 - 120	0 - 40
Acetophenone	mg/kg	3.3	2.91	88		4		49 - 120	0 - 50
Aniline	mg/kg	3.3	1.98	60		62	*	21 - 131	0 - 40
Anthracene	mg/kg	3.3	3.34	101		3		52 - 120	0 - 40
Atrazine (Aatrex)	mg/kg	3.3	4.27	129		.9		43 - 150	0 - 50
Benzaldehyde	mg/kg	3.3	.28	8	*	.7		25 - 127	0 - 50
Benzo(a)anthracene	mg/kg	3.3	3.12	95		.3		48 - 120	0 - 40
Benzo(a)pyrene	mg/kg	3.3	3.35	102		.9		44 - 120	0 - 40
Benzo(b)fluoranthene	mg/kg	3.3	3.1	94		.6		31 - 130	0 - 40
Benzo(g,h,i)perylene	mg/kg	3.3	2.39	72		7		29 - 134	0 - 40
Benzo(k)fluoranthene	mg/kg	3.3	3.31	100		4		36 - 122	0 - 40
Benzoic acid	mg/kg	3.3	2.66	81		2		14 - 124	0 - 40
Benzyl alcohol	mg/kg	3.3	2.92	88		9		47 - 120	0 - 40

RPD	:	1	out o	f	69ou	tside lim	nits
Spike	Re	cove	ry:	2	out of	138	outside limits

Lab Name: GCAL SAS No.: SDG No.: 211011405 Lab Code: LA024 Case No.: Contract: Analytical Method: SW-846 8270 Prep Batch: 448916 Analytical Batch.: 448983 Biphenyl mg/kg 2.78 84 - 120 0 - 50 2.96 90 51 40 Bis(2-Chloroethoxy)methane mg/kg 3.3 1 -120 0 -Bis(2-Chloroethyl)ether 3.3 2.92 88 3 46 120 0 40 mg/kg Butylbenzylphthalate 3.3 3.08 93 6 --40 mg/kg 46 130 0 Caprolactam 3.3 2.69 82 5 34 120 50 mg/kg 0 Carbazole mg/kg 3.3 2.76 84 .7 47 -120 0 - 40 Chrysene mg/kg 3.3 3.03 92 3 51 120 0 40 3.3 93 4 Di-n-butylphthalate mg/kg 3.06 50 120 0 40 Di-n-octylphthalate 3.3 2.73 83 .7 41 40 122 0 mg/kg --Dibenz(a,h)anthracene 3.3 2.57 78 .4 27 129 0 40 mg/kg Dibenzofuran mg/kg 3.3 2.78 84 1 50 -120 0 _ 40 Diethylphthalate mg/kg 3.3 2.9 88 5 36 120 0 40 3.3 2.9 88 2 40 Dimethyl-phthalate mg/kg 50 120 0 --3.3 3.03 92 1 0 Fluoranthene mg/kg 39 120 40 3.3 88 4 Fluorene 2.9 48 -120 40 mg/kg 0 3.3 94 5 Hexachlorobenzene mg/kg 3.1 48 -120 0 40 Hexachlorocyclopentadiene mg/kg 3.3 3.8 115 7 23 -121 0 _ 40 Hexachloroethane 3.3 2.65 80 4 40 120 0 40 mg/kg Indeno(1,2,3-cd)pyrene mg/kg 3.3 2.12 64 9 43 132 0 40 3.3 2.92 88 .3 49 40 Isophorone 120 0 mg/kg --N-Nitroso-di-n-propylamine mg/kg 3.3 3.01 91 4 46 120 0 40 N-Nitrosodimethylamine 3.3 2.88 87 8 _ mg/kg 34 -126 0 40 N-Nitrosodiphenylamine 3.23 3.34 103 3 40 mg/kg 54 125 0 84 3.3 2.78 .4 Nitrobenzene mg/kg 45 0 40 -120 -Pentachlorophenol 3.3 2.39 72 .4 mg/kg 30 124 0 40 3.3 Phenanthrene mg/kg 3.13 95 .6 53 -120 0 -40 Phenol mg/kg 3.3 2.55 77 7 42 120 0 40 Pyrene mg/kg 3.3 3.47 105 7 38 -136 0 _ 40 3.3 2.21 67 9 120 40 Pyridine mg/kg 11 0 _ bis(2-Chloroisopropyl)ether 3.3 2.86 87 1 46 120 0 40 mg/kg bis(2-ethylhexyl)phthalate 90 mg/kg 3.3 2.96 5 46 129 0 40 - . m,p-Cresol 3.3 2.55 77 3 120 0 40 mg/kg 46 4 3.3 2.56 78 o-Cresol mg/kg 46 _ 120 0 40

RPD :	1	out	٠.	69		ide lin	nits
Spike	Recover	ry:	2	out	of	138	outside limits

## 4B SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: GCAL	Sampl	e ID: MB912529		~	
Lab Code: LA024 Case No.:	Contra	ict:			w
Lab File ID: 2110114/e7973	SAS N	lo.:	SDG No	.: 211011405	·
GC Column: RTX-5MS-30 ID: .25	(mm) Lab Sa	ample ID: 912529	Date I	Extracted: 01/14	/11
Instrument ID: MSSV4 Matrix: Water	Date A	nalyzed: 01/14/1	1 Time:	1459	W-000000000000000000000000000000000000
Level: LOW	Metho	d: SW-846 8270			
	Prep B	Batch: 448924	Analytical	Batch: 448983	
THIS METHOD BLAN	NK APPLIES TO T	HE FOLLOWING	SAMPLES		
	LAB	LAB	DATE	TIME	
SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED	
1. LCS912530	912530	2110114/e7974	01/14/11	1516	
2 LCSD912531	912531	2110114/e7975	01/14/11	1533	

21101140514

2110114/e7976 01/14/11

1549

3. EQUIPMENT BLANK

## 4B SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name:	GCAL		Sample ID: MB912490	
Lab Code:	LA024	Case No.:	Contract:	
Lab File ID:	2110114/e7977		SAS No.:	SDG No.: 211011405
GC Column	: RTX-5MS-30	ID: .25 (mm)	Lab Sample ID: 912490	Date Extracted: 01/14/11
Instrument I	D: MSSV4	Matrix: Solid	Date Analyzed: 01/14/11	Time: 1606
		Level: LOW	Method: SW-846 8270	
			Prep Batch: 448916	Analytical Batch: 448983

## THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

		LAB	LAB	DATE	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
1.	LCS912491	912491	2110114/e7978	01/14/11	1623
2.	LCSD912492	912492	2110114/e7979	01/14/11	1639
3.	T-15-F	21101140501	2110114/e7980	01/14/11	1656
4.	T-15-F MS	21101140502	2110114/e7981	01/14/11	1713
5.	T-15-F MSD	21101140503	2110114/e7982	01/14/11	1729
6.	T-21-F	21101140504	2110114/e7983	01/14/11	1746
7.	NC-0-0.3	21101140505	2110114/e7984	01/14/11	1803
8.	T-2-WEST	21101140506	2110114/e7985	01/14/11	1819
9 .	T-6-FLOOR	21101140507	2110114/e7986	01/14/11	1836
10 .	T-6-EAST	21101140508	2110114/e7987	01/14/11	1853
11.	T-6-SOUTH	21101140509	2110114/e7988	01/14/11	1909
12 .	T-6-NORTH	21101140510	2110114/e7989	01/14/11	1926
13 .	BLIND DUP	21101140511	2110114/e7990	01/14/11	1943
14 .	SC-W	21101140512	2110114/e7991	01/14/11	2000
15 .	SC-E	21101140513	2110114/e7992	01/14/11	2016
16 .	T-21-F	21101140504	2110117/e8009	01/17/11	0856

#### 5B

## SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name:	GCAL		Contract:	
Lab Code:	LA024	Case No.:	SAS No.:	SDG No.: 211011405
Lab File ID:	2110112/e7895		DFTPP Injection Date 01/12/11	Time: 0743
GC Column:	RTX-5MS-30	ID: .25 (mm)	Analytical Batch: 448984	
Instrument II	D: MSSV4			

m/e	ION ABUNDANCE CRITERIA			ative lance				
51	30.0-60.0% of mass 198	39.94	(		)	(		)
68	Less than 2% of mass 69	0	(	0	)	(	1	)
69	Mass 69 relative abundance	40.32	(		)	(		)
70	Less than 2.0% of mass 69	.24	(	.62	)	(	1	)
127	40.0-60.0% of mass 198	53.66	(		)	(	11 (10)	)
197	Less than 1.0% of mass 198	0	(		)	(	and the second	)
198	Base Peak, 100% relative abundance	100	(		)	(		)
199	5.0-9.0% of mass 198	7.46	(	· · · · · · · · · · · · · · · · · · ·	)	(		)
275	10.0-30.0% of mass 198	23.59	(		)	(		)
365	Greater than 1.0% of mass 198	2.43	(		)	(		)
441	Present, but less than mass 443	8.41	(		)	(		)
442	Greater than 40.00% of mass 198	64.27	(		)	(		)
443	17.0-23.0% of mass 442	12.48	(	19.43	)	(	2	)

⁽¹⁾⁻Value is % mass 69

(2)-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

		LAB	LAB	DATE	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
1.	STD050	1205	2110112/e7897	01/12/11	0821
2.	STD010	1204	2110112/e7898	01/12/11	0838
3.	STD080	1206	2110112/e7899	01/12/11	0854
4.	STD120	1207	2110112/e7900	01/12/11	0911
5.	STD160	1208	2110112/e7901	01/12/11	0928
6.	STD200	1209	2110112/e7902	01/12/11	0945
7.	STD002	1203	2110112/e7903	01/12/11	1002
8.	STD001	1202	2110112/e7904	01/12/11	1019
9.	STD0.2	1201	2110112/e7905	01/12/11	1037

### 5B ATILE ORGANICS INSTRUMENT PERFORMANC

## SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name:	GCAL			Contract:	
Lab Code:	LA024	Case No.:		SAS No.:	SDG No.: 211011405
Lab File ID:	2110114/e7970			DFTPP Injection Date 01/14/11	Time: 1409
GC Column:	RTX-5MS-30	ID: .25	(mm)	Analytical Batch: 448983	
Instrument I	D: MSSV4				

m/e	ION ABUNDANCE CRITERIA		Rela: unda						
51	30.0-60.0% of mass 198	40.07	(		)	(		)	
68	Less than 2% of mass 69	0	(	0	)	(	1	)	
69	Mass 69 relative abundance	40.58	(		)	(		)	
70	Less than 2.0% of mass 69	0	(.	0	)	(	1	)	
127	40.0-60.0% of mass 198	54.64	(		)	(		)	
197	Less than 1.0% of mass 198	0	(		)	(		)	
198	Base Peak, 100% relative abundance	100	(		)	(		)	
199	5.0-9.0% of mass 198	6.83	(	-	)	(		)	
275	10.0-30.0% of mass 198	22.68	(	100° (100° )	)	(		)	
365	Greater than 1.0% of mass 198	2.35	(		)	(	-	)	
441	Present, but less than mass 443	9.16	(		)	(		)	
442	Greater than 40.00% of mass 198	57.27	(		)	(		),	
443	17.0-23.0% of mass 442	11.72	( :	20.48	3)	(	2	)	

⁽¹⁾⁻Value is % mass 69

(2)-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

		LAB	LAB	DATE	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
1.	STD050	1400	2110114/e7972	01/14/11	1442
2.	MB912529	912529	2110114/e7973	01/14/11	1459
3.	LCS912530	912530	2110114/e7974	01/14/11	1516
4.	LCSD912531	912531	2110114/e7975	01/14/11	1533
<b>5</b> .	EQUIPMENT BLANK	21101140514	2110114/e7976	01/14/11	1549
6.	MB912490	912490	2110114/e7977	01/14/11	1606
7.	LCS912491	912491	2110114/e7978	01/14/11	1623
8.	LCSD912492	912492	2110114/e7979	01/14/11	1639
9.	T-15-F	21101140501	2110114/e7980	01/14/11	1656
10 .	T-15-F MS	21101140502	2110114/e7981	01/14/11	1713
11 .	T-15-F MSD	21101140503	2110114/e7982	01/14/11	1729

FORM V SV

### 5B SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: GCAL	Contract:	
Lab Code: LA024 Case No.:	SAS No.:	SDG No.: 211011405
Lab File ID: 2110114/e7970	DFTPP Injection Date 01/14/11	Time: 1409
GC Column: RTX-5MS-30 ID: .25	(mm) Analytical Batch: 448983	
Instrument ID: MSSV4		
12 T-21-F	21101140504 2110114/e7983	01/14/11 1746
13 . NC-0-0.3	21101140505 2110114/e7984 (	01/14/11 1803
14 . T-2-WEST	21101140506 2110114/e7985 (	01/14/11 1819
15 . T-6-FLOOR	21101140507 2110114/e7986 (	01/14/11 1836
16 . T-6-EAST	21101140508 2110114/e7987 (	01/14/11 1853
17 T-6-SOUTH	21101140509 2110114/e7988	01/14/11 1909
18 . T-6-NORTH	21101140510 2110114/e7989 (	01/14/11 1926
19. BLIND DUP	21101140511 2110114/e7990 (	01/14/11 1943
20 . SC-W	21101140512 2110114/e7991 (	01/14/11 2000
21 . SC-E	21101140513 2110114/e7992	01/14/11 2016

### 5B SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name:	GCAL		Contract:	
Lab Code:	LA024	Case No.:	SAS No.:	SDG No.: 211011405
Lab File ID:	2110117/e8007		DFTPP Injection Date 01/17/11	Time: 0822
GC Column	RTX-5MS-30	ID: .25 (mm)	Analytical Batch: 449083	
Instrument I	D: MSSV4			

m/e	ION ABUNDANCE CRITERIA			ative lance					
51	30.0-60.0% of mass 198	36.61	(		)	(		)	
68	Less than 2% of mass 69	.5	(	1.41	)	(	1	)	
69	Mass 69 relative abundance	35.48	(		)	(		)	
70	Less than 2.0% of mass 69	.25	(	.73	)	(	1	)	
127	40.0-60.0% of mass 198	51.16	(		)	(		)	
197	Less than 1.0% of mass 198	.42	(		)	(		)	
198	Base Peak, 100% relative abundance	100	(		)	(		)	
199	5.0-9.0% of mass 198	6.61	(		)	(		)	
275	10.0-30.0% of mass 198	23.34	(		)	(		)	
365	Greater than 1.0% of mass 198	2.55	(		)	(		)	
441	Present, but less than mass 443	9.87	(		)	(		)	
442	Greater than 40.00% of mass 198	64.07	(		)	(		)	
443	17.0-23.0% of mass 442	12.58	(	19.64	. )	(	2	)	
1	1	ı							

⁽¹⁾⁻Value is % mass 69

(2)-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

		LAB	LAB	DATE	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
1.	STD050	1400	2110117/e8008	01/17/11	0838
2 .	T-21-F	21101140504	2110117/e8009	01/17/11	0856
3.	APP9050	1400	2110117/e8011	01/17/11	1403

Report Date: 19-Jan-2011 16:21

#### GCAL, Inc.

#### INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD Target Version : 3.50 Integrator : HP RTE

Method file : /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m

Cal Date : 18-Jan-2011 09:22 dlb

#### Calibration File Names:

Level 1: /var/chem/MSSV4.i/2110112.s.b/e7905.d Level 2: /var/chem/MSSV4.i/2110111.s.b/e7868.d Level 3: /var/chem/MSSV4.i/2110111.s.b/e7878.d Level 4: /var/chem/MSSV4.i/2110111.s.b/e7874.d Level 5: /var/chem/MSSV4.i/2110111.s.b/e7873.d Level 6: /var/chem/MSSV4.i/2110111.s.b/e7875.d Level 7: /var/chem/MSSV4.i/2110111.s.b/e7876.d Level 8: /var/chem/MSSV4.i/2110111.s.b/e7877.d Level 9: /var/chem/MSSV4.i/2110111.s.b/e7866.d

	0.2000	1 1	2	10	50	80	ı	(	Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	l p	m1	m2	or R^2
							I	l		1	
	120	160	200				1	1		I	
	Level 7	Level 8					1	1			
1 n-Nitrosodimethylamine	+++++	=======    +++++	=======    0.67479	'		•	'	=========	======================================		========
	0.63292	0.69510			1		AVRG	1	0.66692		4.46926
2 Pyridine	+++++		1.38829	1.11191	1.39431	   1.27949	1		· 		 
•	1.30643	1.21179	1.22249				AVRG	1	1.28278	!	7.58152
5 Aniline	+++++		'		220945	l	1				 
	258128				1	•	QUAD	0.08231	0.00216	0.38649	0.99202
		l				l	.	1	l ì .		

## GCAL, Inc.

### INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 : 12-JAN-2011 10:37 End Cal Date

Quant Method : ISTD
Target Version : 3.50
Integrator : HP R
Method file : /var, : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

Cal Date

	0.2000	1	2	10	50	80	1	Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b m1	m2	or R^2
	120	160	200				1 1			1
	Level 7	Level 8	Level 9	!	1					1
6 Phenol +	   +++++	1.51309	,	'	,			 		 
	1.55502	1.55123	1.42493		I		AVRG	1.53925		4.0375
7 bis(-2-Chloroethyl)Ether	+++++	+++++	0.70766	0.74664	,					, 
	0.773021	0.77615	0.74219	1	l		AVRG	0.75300		3.1984
8 2-Chlorophenol	+++++	+++++	1.28889	1.23780	1.38858		, ,			1
	1.41658	1.39053	1.30831				AVRG	1.33996		4.8096
9 1,3-Dichlorobenzene	+++++	+++++	1.32971	1.50464	1.48238		1 1	· I		1
	1.51442	1.51791	1.45075				AVRG	1.46702		4.4535
11 1,4-Dichlorobenzene +	+++++	+++++	1.47813	1.47734	1.52318	1.47923	1 1			l
	1.54094	1.52639	1.45354				AVRG	1.49696		2.1862
12 Benzyl alcohol	++++	+++++	+++++	0.62917			1	1		1
	0.73503	0.71370	0.66568				AVRG	0.69098		1 5.4662
13 1,2-Dichlorobenzene	++++	1.62477	1.28015	1.39217	1.41757	1.38021				
	1.44355	1.42900	1.35483			1	AVRG	1.41528		6.9925
	!						1	-		

### GCAL, Inc.

### INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD Target Version : 3.50 Integrator Method file

: HP RTE : /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

Cal Date

1	0.2000	1	2	10	50	80		Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b m1	m2	or R^2
	120	160	200				' ' 			1
	Level 7	Level 8	Level 9							
14 Bis(2-chloroisopropyl)ether	+++++	1.32813	1.41505	1.37555			'. '	I I		
	1.44915	1.40837	1.32433				AVRG	1.38786		3.10813
15 2-Methylphenol	+++++	1	0.97509	1.08858	•		. ,			
	1.13095	·	1.04570				AVRG	1.08588		5.2905
16 N-Nitroso-di-n-propylamine++	'	0.69647	1	0.73890	,					1
	0.73758	0.71297				~	AVRG	0.70966		3.8207
17 3- & 4-Methylphenol	++++	+++++	0.93904	,	,			.		1
	1.17068	1.09011	1.04398				AVRG	1.09705		7.5276
18 Hexachloroethane	+++++	0.65011	0.47813	,	,					
	0.56808	0.54884	0.52434				AVRG	0.54554		9.0473
20 Nitrobenzene	+++++	0.34231	0.27691	,	,					·[
	0.31520	0.31891					AVRG	0.31120		5.8105
21 Isophorone	+++++	0.46667			'					l ,
	0.51527	0.50604	0.47632	!			AVRG	0.49638		4.6843
	 						- 	- 		

## GCAL, Inc.

### INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD
Target Version : 3.50
Integrator : HP R
Method file : /var/
Cal Date : 18-Ja : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

	0.2000	1	2	10	50	80			Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
	120	160	200	1	İ		1 1				1
	Level 7	Level 8	Level 9	·	1						1
22 2-Nitrophenol +	+++++	+++++	0.15017	0.18684	'	0.21392	•				
	0.21641	0.21798	0.20919		1		AVRG		0.20104		12.32340
23 2,4-Dimethyphenol		+++++	0.27870	0.33496	1				-		
	0.354331	0.35099	0.33522	1	1		AVRG		0.33764		8.13970
24 bis (-2-Chloroethoxy) methane		+++++	0.32661	0.34245	1				-		
	0.34872	0.34655	0.33353	1	ı		AVRG		0.34215		2.58628
25 Benzoic Acid		+++++	+++++	0.150441	ı				-		-   
	0.18602		0.16202				AVRG		0.16310		8.66554
26 2,4-Dichlorophenol +		+++++	0.258191	0.290061	'				-		-
20 27 1 Dienierophener	0.31528		0.29292		1		AVRG		0.29836		6.83088
27 1,2,4-Trichlorobenzene		+++++	0.281921		•		1		-		-
2 1,2,1 1110112122001120110	0.329041		0.32125	1			AVRG		0.31960		5.32986
29 Naphthalene		1.027361		•	•		• •		-		-
	0.945291		0.91009				AVRG		0.94918		4.19556
							-		-		-

Report Date: 19-Jan-2011 16:21

## GCAL, Inc.

## INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD Target Version : 3.50 : ISTD Integrator Method file : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

1	0.2000	1	2 1	10	50	80	1 1	(	Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	120	160	200				1 1				1
 	Level 7	Level 8	Level 9	 							 = =======
30 4-Chloroaniline	+++++	+++++	0.35349	0.40090	0.37810	0.35187	1 . 1	1	1		i
	0.31985	0.28762	+++++				AVRG	· !	0.34864		11.605
31 Hexachlorobutadiene +	0.21654		0.15309	0.17767			• •		- 		1
	0.19130	0.19151	0.18725		1		AVRG		0.18815		9.281
32 4-Chloro-3-Methylphenol +	+++++	+++++	0.22653	0.25669	,				-		
l l	0.28888	0.27745	0.26230	!	!		AVRG	1	0.26619		7.817
33 2-Methylnaphthalene	0.75282	0.64605		0.64598	,	0.65813			- 		
	0.64605	0.64512	0.608991	l.			AVRG		0.64925		6.911
34 Hexachlorocyclopentadiene ++	+++++	0.298261	1	0.29049	· ·	0.33981			- 		
	0.35373	0.35158	0.31297				AVRG		0.31922		14.619
35 2,4,6-Trichlorophenol +	+++++	+++++	1909	   12493	122227	165749			- 		-  
	229864	266293	324035	1	İ		LINR	0.05377			0.999
36 2,4,5-Trichlorphenol	+++++	+++++	0.35302	0.40169	'				- 		-  
· · · · · · · · · · · · · · · · · · ·	0.43834	0.43991	0.41044	1	1		AVRG	1	0.41250		7.179
									-		-

## INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 : 12-JAN-2011 10:37 End Cal Date

Quant Method : ISTD Target Version : 3.50 : ISTD Integrator Method file : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

	0.2000	1	2	10	50	80	1 1	Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b m1	m2	or R^2
	1 120	160 ,	200 [	. I			1 1			
·	Level 7	Level 8	Level 9							 
38 2-Chloronaphthalene	+++++	1.19788		1.15357	'					
	1.16788	1.19429	1.13270				AVRG	1.14504		5.0873
39 2-Nitroaniline	++++	+++++	+++++	0.35937	,			1		
	0.43652	0.43257					AVRG	0.41051		6.7137
40 Dimethylphthalate	+++++	+++++	1.16509	1.20130	,					
	1.23851	1.26030	1.20201	 			AVRG	1.22039		2.6521
41 2,6-Dinitrotoluene	+++++	+++++	0.19242	0.25152	,		1			
	0.28782	0.28532	0.27537				AVRG	0.26238		12.5995
42 Acenaphthylene	+++++	1.64434	1.48178	1.56592	'					- 1
	1.56569	1.61023	1.53495				AVRG	1.56191		3.1879
43 3-Nitroaniline	+++++	+++++	+++++	0.30427	'					1
	0.33235	0.31127					AVRG	0.31626		3.56213
45 Acenaphthene +	+++++	1.15493		1.05758	,		'			1
	1.07840	1.07828	1.02258				AVRG	1.06196		4.22970
				1						_

## INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD
Target Version : 3.50
Integrator : HP RI
Method file : /var/

: HP RTE : /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

	0.2000	1	2	10	50	80	1	Co	efficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	120	160	200				1 1				! 
	Level 7	Level 8	Level 9		·				.========		l
46 2,4-Dinitrophenol ++	+++++	+++++	•	0.10074				1	1		1
	0.19714		0.21809				AVRG	 	0.16316		31.02681
47 Dibenzofuran	+++++	+++++		1.55043	'			1	· 1		I
	1.57066	1.55202	•	  1			AVRG	  -	1.53557		1.82487
48 2,4-Dinitrotoluene	+++++	+++++	0.31061	0.31379	0.35455	0.36181		l	. 1		I
	0.37184	0.35157	•	 			AVRG	  -	0.34425		6.80302
49 4-Nitrophenol ++	+++++	+++++	+++++ [	0.16393	0.16718	0.16225		i	İ		i
	0.17301	0.17462	0.17429	ا اا			AVRG     -	  -	0.16921		3.23580
50 Diethylphthalate	+++++		•	1.11368	1.09530			1	1		1
	1.17079  	1.13424		ا اا			AVRG     -	  -	1.08163		6.91633
51 Fluorene	+++++	1.17856		1.15678	1.13521			1	ĺ		I,
	1.19545		1.09845	 			AVRG     -	  -	1.13875		4.99629 
52 4-Chlorophenyl-phenylether	+++++	0.57478		0.56163	0.54839	0.55531		i	i		1
	0.58156  	0.56673	0.53458	 			AVRG     -	I	0.55830		2.85997 
	_ll						.ll_	<u> </u>	i		

Report Date: 19-Jan-2011 16:21

## GCAL, Inc.

## INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD
Target Version : 3.50
Integrator : HP R
Method file : /var
Cal Date : 18-Ja : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

	1 0.2000 1	1 1	2 1	10	50 1	80			oefficients	ALLE AND THE TAXABLE PROPERTY.	%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
	   120     Level 7	160   Level 8	200   Level 9	 	   						 
53 4-Nitroaniline	+++++     0.30627	+++++   0.32406	+++++   0.29656	0.31857	0.30740	0.27698			0.30497		   5.50817
54 4,6-Dinitro-o-cresol	+++++     130332	+++++   151737	698    179347	5526	63276	86825	  LINR	0.13186  	0.17296		0.99705
55 N-nitrosodiphenylamine (1)+	+++++     0.57656	+++++	0.45923  0.55801	0.52594		0.56335	I I  AVRG	 	0.54663		7.86643
56 Azobenzene	+++++     0.77615	+++++	0.66562	0.72088			AVRG	 	0.75125		6.31054
58 4-Bromophenyl-phenylether	+++++     0.21756	+++++	0.17964		0.20333	0.21285	  AVRG	 	0.20383		7.49014
59 Hexachlorobenzene	0.21360	·	0.20411		0.20706	0.20768			0.21085		3.12189
60 Pentachlorophenol +	+++++   128697	+++++	790	6147		84775		0.11438	0.16975		1 0.99783
											_

#### INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD
Target Version : 3.50
Integrator : HP R
Method file : /var, : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

Compound	0.2000     Level 1	1   Level 2	2   Level 3	10   Level 4	50   Level 5	80 Level 6		b	Coefficients m1	m2	%RSD     or R^2
	120     Level 7	160   Level 8	200   Level 9								
62 Phenanthrene	+++++	1.12947	1.04958	1.02199	1.04780	1.08261	I I				2.95851
63 Anthracene	1.08002	1.04511	0.91729	1.02206	1.04513	1.09079	  AVRG		1.04248		5.36051
64 Carbazole	+++++     0.99468	1.01903	0.87491  0.99268	1.02118	1	0.98058	    AVRG		 		-           5.03714
65 Di-n-butylphthalate	1.17243	 +++++   1.17596	0.78292  1.13129	0.98236	1	1.16995	  AVRG		         1.07293		-           13.51480
M 66 Total Methylphenol	+++++     1.15081	+++++   1.10393	0.95706  1.04484	1.10623	1	1.13031	  AVRG		1.09146		-               6.34017
67 Fluoranthene +	   +++++     0.98467	0.83651  1.02638	0.85548	0.95075	. 1	0.97780	    AVRG		0.94668		7.17485
68 Benzidine	0.15576	0.12598  +++++	•	0.15815    0.15816  		0.06311	1		         0.11461		-             38.74084
							.     .				-   _

#### INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/ch

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

evel 1    - 120   evel 7	Level 2   	Level 3     200	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
evel 7		1								
		Level 9		1	!					    -
+++++	1.07504	1.05406	1.20593	1.30230	1.34173	         AVRG	1	1.23232		9.4897
+++++   369335	+++++   447127	2720  548123	19912	193224	270016		0.03648	0.61405		   0.9988
+++++	1.14780	1.06589	1.00001	1.14722	1.07573	I I IAVRG I		1.11425		5.7102
+++++			12760	120255	160537			0.36577		0.9992
+++++	1.37981	1.20800	1.11843	1.13703	1.20735		   	1.20225		6.5901
+++++   472850	1319  577892	2668  697389	21368	237546	337863	  LINR	0.05297	0.78798		   0.9981
+++++   714374	+++++   895966	+++++	22891		487046		0.24132	1.31692		-      0.9987
-	+++++   369335  +++++   1.17434   +++++   219487   +++++   1.18854   472850   +++++	+++++   +++++   369335  447127   +++++   1.14780  1.17434  1.18936   +++++   +++++   219487  265787   +++++   1.37981  1.18854  1.20618   +++++   1319  472850  577892   +++++   +++++	+++++   +++++   2720  369335  447127  548123     +++++   1.14780  1.06589  1.17434  1.18936  1.11369     +++++   +++++   1647  219487  265787  329103     +++++   1.37981  1.20800  1.18854  1.20618  1.17270     +++++   1319  2668  472850  577892  697389     +++++   +++++   +++++	+++++   +++++   2720  19912  369335  447127  548123    +++++   1.14780  1.06589  1.00001  1.17434  1.18936  1.11369    +++++   +++++   1647  12760  219487  265787  329103	+++++	+++++	+++++   +++++   2720  19912  193224  270016    369335  447127  548123	+++++   +++++   2720  19912  193224  270016	+++++   +++++   2720  19912  193224  270016	+++++   +++++   2720  19912  193224  270016

#### INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD Target Version : 3.50 Integrator Method file : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

	1 0.2000 1	1 1	2 1	10	50 1	80		Co	efficients		%RSD
Compound	Level 1	Level 2	Level 3		Level 5	Level 6	Curve	b	m1	m2	or R^2
	120     Level 7	160   Level 8	200   Level 9	1	. 1		1 1			!   	
78 Benzo(b)fluoranthene	+++++     640955	2138  803446	3959  916092	26080	279436	403551	I I I	0.09873	0.81829	0.00446	
79 Benzo(k)fluoranthene	   +++++     1.44955	1.00962	1.07671	1.39610		1.45940		1	1.35899	 	14.796
80 Benzo(a)pyrene +	0.89265	0.98335	0.98062  1.14005	0.94145	0.99936	1.09163			1.03989	; \	9.84
82 Indeno(1,2,3-cd)pyrene	165    697721	898756	5724  1160554	31796  	1	454713	  LINR	0.11267	1.26316	   	0.99
83 Dibenzo(a,h)anthracene	48.00000    521692	1280  708860	4265  923336	25522	270544	352276	  LINR	0.11054	1.10560	   	0.99
84 Benzo(g,h,i)perylene	114    621577	2413  832347	6487    1021938	30037  	311187	401133	  LINR	0.09094	1.25542	     	0.99
85 2-Picoline	   +++++     1.27533	+++++	+++++   1.23750	1.39808	1.34936	1.27581	  AVRG	i	1.30102	·   ·   	4.61
			I					-	۱ا	اا	

## INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD Target Version : 3.50 : ISTD Intégrator : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb Method file

	0.2000	1 1	2 1	10	50	80	1 1	С	oefficients	1	%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	120	160	200				1 1			1	
	Level 7	Level 8	Level 9	1			l			l	
86 N-Nitrosomethylethylamine	+++++	+++++	+++++	0.47549	'				1	I	
	0.43642	0.43920	,				AVRG		0.43237		7.08692
87 Methyl methanesulfonate	+++++	+++++	+++++	0.63301	'				1		,
	0.47597						AVRG	I	0.54269	 	13.49493
88 N-Nitrosodiethylamine	+++++	+++++		0.53045	'				1		
	0.51090	0.51946	0.52224				AVRG	 	0.52842		3.34620
89 Ethyl methanesulfonate	, ++++	+++++	'	0.81295	0.85684	0.78418		1	.		
	0.77498	0.77754					AVRG		0.79501	ا اا	4.34184
90 Pentachloroethane	+++++	+++++	++++	0.53492	0.51235	0.51232		1	i	' !	
	0.51047	0.51764	0.51982			 	AVRG	 l	0.51792	ا اا	1.74943
91 Acetophenone	+++++	+++++	+++++	1.27315	1.32820	1.34328		1	i	1	
	1.35661	1.30680	1.22136				AVRG		1.30490	ا اا	3.85937
92 O-Toluidine	+++++	+++++	++++	52936				1	i	,	
	358532	321787	500675		 	 	QUAD	0.25294	-0.10263	0.30171	0.99762
	_						II				

Report Date: 19-Jan-2011 16:21

## GCAL, Inc.

## INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD Target Version : 3.50
Integrator : HP R
Method file : /var/

: HP RTE : /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

1	0.2000	1	2	10	50	80			Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	120   Level 7	160   Level 8	200   Level 9	   	   	<del> </del>					
93 N-Nitrosomorpholine	+++++   0.58102	+++++	+++++   0.56024	0.63242		0.57176			0.59963		6.3805
94 N-Nitrosopiperidine	+++++   0.20088	+++++   0.20100	+++++   0.20314	0.21448	0.20859	0.19545	        AVRG				   3.2790
95 0,0,0-Triethylphosphorothioat	•	+++++   0.15143	+++++	0.15235		0.14563			0.14897		1.7821
96 Alpha,Alpha-Dimethylphenethyl	+++++   0.48092	+++++	+++++	0.51828	0.49774	0.42857			0.50422		   9.6792
97 Hexachloropropene	+++++   0.19611	+++++	+++++   0.20470	0.17350	0.18056	0.19003	         AVRG		0.19019		   6.0105
98 2,6-Dichlorophenol	+++++   0.28553	+++++	+++++	0.29789  	1	0.27504	, ,		0.28902		   3.1955
99 N-Nitrosodi-n-butylamine	+++++	+++++	+++++   0.17995	0.18369	0.18726	0.17351	-    AVRG				1 2.6436

## INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD Target Version : 3.50 Integrator Method file : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

	0.2000	1	2	10	50	80	1 1		Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	120	160	200				l 1				1
	Level 7	Level 8	Level 9								1
100 p-Phenylenediamine		+++++		+++++	0.01474	0.01093				· · · · · · · · · · · · · · · · · · ·	1
	0.01262	0.01723	0.02006				AVRG		0.01512		24.04371
101 Isosafrole	+++++	+++++	+++++	0.13018	'	0.12129					1
	0.12304	0.12596					AVRG		0.12552		2.96745
102 1,2,4,5-Tetrachlorobenzene	+++++	0.57855			'	0.63018			1 1		1
	0.60123	0.61702	0.61482				AVRG		0.61024		4.52546
103 Safrole	+++++	+++++	+++++	1.05282	'	1.00032	1. '				i i
	0.96573	0.98667	0.97292				AVRG   		0.99602		3.10612
104 1,4-Naphthoquinone	+++++	0.24974	0.34601			0.14703			1 1		i
	0.06141	+++++	+++++   		 		AVRG		0.24776		51.32166
105 m-Dinitrobenzene	+++++	+++++		0.17277	'				i		1
	0.18848	0.21026					AVRG		0.18435		12.29412
106 Pentachlorobenzene	+++++	+++++		0.48786					1		1
	0.45397	0.46938	0.46311	•			AVRG		0.46752		2.67671
			 				-				

Report Date: 19-Jan-2011 16:21

## GCAL, Inc.

#### INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD Target Version : 3.50 Integrator Method file : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

1	0.2000	1	2	10	50	80	1 1,	Co	efficients	1	%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
-   	120   Level 7	160   Level 8	200   Level 9	   						 	
107 2-Napthylamine	+++++   396141	+++++   401398	9837  655719	53016	'	265775	I I QUAD	-0.00166	0.82148	0.24972	0.99746
108 2,3,4,6-Tetrachlorophenol	+++++	+++++   0.26795	0.17131	0.20620	0.24391	0.23546	       AVRG	1	0.23343	   	14.78954
109 1-Naphthylamine	+++++   373829	+++++   367281	12257	,	. 1	262177	I I QUAD	0.03131	0.51044	0.45433	0.99638
110 Thionazin	+++++   0.16980	+++++   0.16842	+++++   0.15793	0.17973	,	0.16620	I I I AVRG I		0.17316		7.83084
111 5-Nitro-o-toluidine	+++++	+++++   0.30838	+++++	0.31309	0.33335	0.29429	, ,	   	0.30774	     	4.92440
112 Tetraethyldithiopyrophosphate	+++++   0.11869	+++++   0.12466	+++++	0.10451	   0.12198  	0.11335			0.11910		7.84866
113 Diallate	+++++   0.20847	+++++   0.21054	+++++   0.20239	0.24245		0.21500	        AVRG	-   	0.21571	   	6.46384

## INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD
Target Version : 3.50
Integrator : HP R:
Method file : /var/
Cal Date : 18-Ja : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

	0.2000	1	2	10	50	80	1 1	С	oefficients	1	%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	120     Level 7	160   Level 8	200   Level 9		1		! ! ! ! !				
114 Phorate	1 +++++ 1	+++++   0.35611	+++++   0.31359	0.39234	0.37638	0.36721	  AVRG	1	0.35720	! !	7.91052
115 sym-Trinitrobenzene	+++++     56712	+++++   67177	+++++   119262	3310	1	28934	I I I	0.13053	14.47101	-6.02436	0.99715
116 Phenacetin	+++++	+++++   0.34379		0.26918	0.29711	0.28409	          AVRG	1	0.30055	1	8.43080
117 Dimethoate	   +++++     0.20505		+++++   0.19117	0.21119	ı l	0.19615	        AVRG	·	0.20730	1	5.87936
118 Pentachloronitrobenzene	+++++     0.09113	+++++ 0.09512	+++++	0.08345		0.08310	         	   	0.08858	. 1	5.23137
119 4-Aminobiphenyl	   +++++     318298	4616  +++++	10976  +++++	51228		239016	I IQUAD I	0.06165	0.30459	1.62073	0.99556
120 Pronamide	   +++++     0.29261	+++++	+++++	0.28436	0.31383	0.29521	I I I ÄVRG	   	0.30189	   	4.73814

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## GCAL, Inc.

## INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD
Target Version : 3.50
Integrator : HP RT
Method file : /var/ : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

	0.2000	1	2	10	50	80	1 1	С	oefficients	1	%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
	120     Level 7		200   Level 9		' ' ' 		1			1 1	 
121 Dinoseb	+++++     128200	+++++ 162201	993   269094	6227	63686  	71568	I I I	0.09085	  6.21847	-1.02629	İ
122 Disulfoton	+++++	0.28236	+++++   0.25033	0.33398		0.26953		i 1	0.28677		10.46602
123 Methyl parathion	+++++	0.21999	+++++	0.17814		0.19528		, ,	0.20266	1	     7.49767
124 4-Nitroquinoline-1-oxide		+++++ 58658	320	2062		25437	I I I	0.07874	i	   -14.13053	0.99782
125 Parathion	+++++     0.12400	++++	++++	0.10348		0.11660	  AVRG	1	       0.12159	   	8.90693
126 Metapyrilene			+++++ 0.23339	0.18295	I I	0.19316	  AVRG	1	0.21477	•	11.18237
127 Isodrin	+++++     0.12187	+++++	+++++	0.12763	'	0.12329		   	       0.12545		2.58374

#### INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD Target Version : 3.50
Integrator : HP RTE
Method file : /var/cl
Cal Date : 18-Jan

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

	0.2000	1 1	2	10	50	80	1 1	Co	pefficients	1	%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
. I	120	160	200				1 1			. 1	
			Level 9								
128 Aramite	+++++	+++++	+++++	1527		14046		1	.1	1	
·	27533	34597					LINR	0.18343	0.05432		0.99522
129 p-(Dimethylamino)azobenzene	+++++	+++++	+++++	0.33159	•	0.35837	1 1	1	, i	ì	
·	0.35805						AVRG	 I	0.35748		4.96808
130 Chlorobenzilate	+++++	+++++	+++++	0.28345	•	0.31142		1		1	
·	0.32474						AVRG		0.32026	1	6.28453
131 Famphur	+++++	999	3416	15437	73480	82085	 I I	i	i	i	
l 	117836				 		QUAD	0.04468	1.61681		0.9917
132 3,3'-Dimethyl benzidine	+++++	0.19122	0.31838		•	0.22532	1	i	i	i	
l 	0.16309						AVRG	 l	0.28741		40.0964
133 2-Acetylaminofluorene	+++++	+++++	2558			135973		i			
	271829	3662991	•				QUAD	0.06459		-0.34838	0.9997
134 7,12-Dimethylbenz(a)anthracen	'	+++++	,	'	. 1	0.58855		1	1	1	
	0.63312	0.62986	0.60366				AVRG		0.58769	1	11.8942

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## GCAL, Inc.

## INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD Target Version : 3.50
Integrator : HP R
Method file : /var, : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

	'0.2000	1 1	2 1	10	50	80	1 1	С	oefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
	120	160	200				1 1				1 . I
	Level 7	Level 8	Level 9				'				
135 Hexachlorophene	+++++	+++++	+++++	0.00344		0.01860		I			
	0.03299	0.04550					AVRG	 	0.02740		72.04568
136 3-Methyl cholanthrene	+++++	+++++	•	11157		135365		, i	1		1
	278258						LINR	0.11863	0.58376		0.99766
137 Acrylamide	+++++	+++++	0.47821	- '		0.49645		1	. 1		1 1
	0.44009	0.45843	+++++				AVRG	 	0.47774		6.15070  
138 N-Nitrosopyrrolidine	+++++	+++++	0.42567	0.48665	0.46282	0.46732	:	i			1 1
	0.49190		•				AVRG		0.46514		5.10782
139 Pthalic Acid & Anhydride	+++++		+++++ 1	0.19975	0.14946	0.14382	21 1	i i	i i		 I I
	0.15223		•				AVRG		0.15612		16.16273
140 1,4-Dinitrobenzene	+++++	+++++	1214	19262	39202	67723	31 1	i			 I I
	81753  		•		· ·		LINR	0.04125	0.18327		0.99971
141 Kepone	+++++	+++++	+++++	0.04059	' . '			. 1	1		1 1
	0.06442	0.06146	+++++				AVRG		0.05583		21.14341
							_1				l1

## INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37 Quant Method : ISTD

Quant Method : ISTD Target Version : 3.50 Integrator Method file : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

	0.2000	1	2	10	50	80	1 1		Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
. 1	120	160	200		 		1 1				
	Level 7	Level 8	Level 9		 		 				  -
142 4,4Methylenebis2chloroanaline	'	+++++	+++++	12317	·				1		1 1
	76721	104045	+++++		 		LINR	0.23981	0.15589		0.99573
143 Tris2,3Dibromopropylphosphate		++++	+++++	2686	'		1 1				
	21183	28204	+++++				LINR	0.29624	0.05412		0.99677
144 Maleic Anhydride	+++++	++++	+++++	+++++	++,+++	+++++					
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00
145 1-Methylnapthalene	+++++	0.59188	0.57957	0.60907	0.58955	0.60458					- I I
	0.60221	0.58679	0.56014				AVRG	!	0.59047		2.66875
146 Total Methylnapthalene	+++++	+++++	   +++++	+++++	   +++++	+++++					
	+++++	+++++	+++++		 		AVRG		0.000e+00		0.000e+00
147 N-methyldiethanolamine	+++++	+++++	+++++	+++++	   +++++	+++++					
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00
148 A-Terpineol	+++++	+++++		+++++	   +++++	+++++					-     
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00
											-11

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## GCAL, Inc.

#### INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD Target Version : 3.50
Integrator : HP R'
Method file : /var, : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

	0.2000	1	2 1	10	50	80	1 1	C	Coefficients	1	%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	120	160	200		 		-1 1 1 1			1	
	Level 7	Level 8	Level 9		 		1 1			1	
149 3/4-Chlorophenol		+++++	+++++	+++++		+++++			 	۱ ا	
	+++++	+++++	+++++	!			AVRG		0.000e+00  	•	0.000e+00
151 2,3-Dichlorophenol	+++++	+++++	.++++	+++++		+++++			-		
	+++++	+++++	+++++				AVRG		0.000e+00	ا ا ــــــا	0.000e+00
152 2,5-Dichlorophenol	+++++	++++	+++++	+++++	+++++	++++		,	1	1	
	+++++	+++++	+++++				AVRG		0.000e+00  	ا اا	0.000e+00
153 3,4-Dichlorophenol	+++++	+++++	+++++	++++	' ++++ '	++++	1 1		I I	İ	
	+++++	+++++	+++++		 		AVRG   		0.000e+00    -	ا اا	0.000e+00
154 Dimethyl Benzyl Alcohol	+++++	+++++	+++++	+++++	·   +++++	+++++	1 1		I I	i	
	+++++	+++++	+++++   		 		AVRG   		0.000e+00    -	ا ا	0.000e+00
155 Benzaldehyde	+++++	207	462	9787	,   58777	63097			i i	i	
	70376  	+++++	+++++   				QUAD 	0.04642		3.61156  	0.99789
156 Caprolactam	+++++	+++++	0.05427		0.07198	0.07629			i i	i I	
	0.07964	0.07262	0.06777  				AVRG 		0.07027	ا اا	11.55526
·				,	!!		_ii		_	1	

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## GCAL, Inc.

#### INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD Target Version : 3.50
Integrator : HP R'
Method file : /var, : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

	0.2000	1	2 1	10	50	80	1 1		Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2	or R^2
	120	160	200				i i				
	Level 7	Level 8	Level 9	1	  -======						
157 Biphenyl	   +++++	0.78161		0.73036	'	0.72719			I 1		
	0.73035	0.69514	0.65892	· 			AVRG		0.71458		5.21331
158 Atrazine	+++++	0.10910	0.12217	0.14832	' '	0.12384			1 1		1
	0.11884	0.10599	0.08967				AVRG		0.11879		14.92382
159 Dicyclopentadiene	+++++	+++++	+++++	++++	+++++	+++++	I I		i		i i
	+++++	+++++	+++++		 		AVRG		0.000e+00		0.000e+00  
169 Benzenethiol	+++++	+++++	+++++	++++	+++++	+++++	1 1		i		i i
	+++++	+++++	+++++		 		AVRG   		0.000e+00		0.000e+00  
170 Indene	+++++	+++++	+++++	++++	+++++	+++++	1 . 1				
	++++	+++++	+++++		 		AVRG   		0.000e+00		0.000e+00  
171 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	1 1		1 1		1 1
	+++++	+++++	+++++				AVRG   		0.000e+00		0.000e+00  
172 Methyl Chrysene	+++++	+++++	+++++	+++++	+++++	++++			1		
	++++	+++++	+++++		 		AVRG   		0.000e+00		0.000e+00  
	II	i	1				 				_i

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## GCAL, Inc.

#### INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD Target Version : 3.50
Integrator : HP R'
Method file : /var, : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

	0.2000	1	2	10	J 50 I	80	1 1		coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	120	160	200				·    			·	! !
	Level 7	Level 8	Level 9		· 		1 1				· · · · · · · · · · · · · · · · · · ·
173 Dibenz(a,h)acridine	=======	+++++	+++++	+++++	=======	=========   +++++	=====				=======================================
1/3 Dibenz (a, n, acridine	+++++	+++++	+++++		· ','''		QUAD	0.000e+00	0.000e+00	0.000e+00	0.000e+00
174 1,4-Dioxane		1385	1616	8928		86810	, ,				
174 1,4-Dioxane	1 121026	152717	184284		/5415	l	LINR				0.99960
175 2,4and/or2,6-Diaminotoluene		+++++	   +++++	+++++			·   				
	+++++	+++++	+++++				AVRG	1	0.000e+00	l	0.000e+00
185 2,3and/or3,4 Diaminotoluene	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	++++		1		AVRG		0.000e+00		0.000e+00
176 4-t-Butyl Phenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	<u> </u>	1	l '	AVRG		0.000e+00		0.000e+00
177 1,2,3,4-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++		-   				
	+++++	++++	+++++	<u> </u>	1		AVRG		0.000e+001		0.000e+00
178 2-Phenyl Phenol	+++++	+++++	+++++		+++++	+++++	- I l				
<del>-</del>	+++++	++++	+++++	I	I	I	AVRG		0.000e+00		0.000e+00
							-				

## INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD
Target Version : 3.50
Integrator : HP R
Method file : /var/ : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

	0.2000	1	1 2	10	I 50	1 80	1 1	Coefficients	3	%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b m1	m2	or R^2
	120	160	200			1	-1 1 1 · 1			1 , 1
	Level 7	Level 8	Level 9			. 				
179 Ronnel	+++++	+++++	+++++	++++	++++	+++++	1 1	1		
	+++++	+++++	+++++				AVRG	0.000e+00		0.000e+00 <
180 Hexabromobenzene	++++	+++++	+++++	++++	++++	+++++	i	i		i, i
	+++++	+++++ 	+++++	 			AVRG  -	0.000e+00		0.000e+00 < -
181 Tolylene 2,6-Diisocyanate	+++++	++++	+++++	++++	+++++	+++++	1 1	i		i . i
	+++++	+++++ 	+++++	 			AVRG   -  -	0.000e+00		0.000e+00 < -
182 Tolylene 2,4-Diisocyanate	+++++	+++++	+++++	++++	++++	+++++	1 1	l .		1
	+++++	+++++ 	+++++	 			AVRG   -  -	0.000e+00		0.000e+00 < -
183 Tolylene 2,5-diisocyanate	+++++	+++++	+++++	++++	+++++	+++++		1		1
	+++++	+++++ 	+++++	 			AVRG   -  -	0.000e+00		0.000e+00 < -
M 184 Tolylene Diisocyanate	+++++	++++	+++++	++++	+++++	+++++		1		
	+++++	+++++ 	+++++	 			AVRG   -  -	0.000e+00		0.000e+00 < -
186 Benzothiazole	+++++	++++	++++	+++++	+++++	+++++		1		
	_ ++++	. +++++ 	+++++	 			AVRG   -  -	0.000e+00		0.000e+00 < -
	_1		1		.1	.	_11.		· I	_

## INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD Target Version : 3.50 Intégrator : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb Method file

	0.2000	1	1 2	10	50	80	1 1	(	Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	d	m1	m2	or R^2
	120	160	200	<del></del> 			-I , I				
	Level 7	Level 8	Level 9	1	1	1	1 1				
187 2-3H Benzothiazolone	+++++	+++++	+++++			+++++	-     	=========			
	+++++	+++++	++++	l ·	1	1	AVRG		0.000e+00		0.000e+00
188 2-3H Benzothiazolethione	+++++	+++++	+++++		+++++	+++++	-     	<del></del>	 		
· · · · · · · · · · · · · · · · · · ·	+++++	++++	1 +++++	·	1	1	AVRG		0.000e+00		0.000e+00
189 2-tet-Butyl-4-methylphenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	++++	+++++			l 1	AVRG		0.000e+00		0.000e+00
190 Methylbenzothiazole	+++++	+++++	+++++	+++++	+++++	+++++	[		 		1
	+++++	+++++	+++++	l	1	1	AVRG	 	0.000e+00		0.000e+00
191 2,3,4-Trichlorophenol	++++	++++	+++++	++++	+++++	+++++					
	+++++	+++++	+++++		1	1	LINR	0.000e+00	0.000e+00		0.000e+00
192 2,3,5,6-Tetrachlorophenol	+++++	++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	 		l 	AVRG	· 	0.000e+00		0.000e+00
193 3,4,5-Trichlorophenol	+++++	+++++	+++++	 	+++++	+++++			 		
	+++++	+++++	+++++		1	1	AVRG		0.000e+00		0.000e+00
,			1				-				

Report Date: 19-Jan-2011 16:21

## GCAL, Inc.

## INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD
Target Version : 3.50
Integrator : HP R
Method file : /var,

: HP RTE : /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

ı	0.2000	1	1 2	1 10	1 50	1 80	1 1		Coefficients		%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	•	Curve		ml	m2	or R^2
					,		-1 1				1
	120	160	200	l	1	1	1 1				1 1
l 	Level 7	Level 8	Level 9	 	1	 					
======================================	+++++	+++++	+++++	+++++	+++++		-   <del></del>				
	+++++	++++	+++++	l	<u> </u>	l	AVRG	. 1	0.000e+00		0.000e+00
.95 2,5/2,4-Dichlorophenol	+++++	+++++	+++++				·   		-		
1	+++++	++++	+++++		1	1	AVRG	1	0.000e+00		0.000e+00
L96 2,3,4,5-Tetrachlorophenol	+++++	+++++		   +++++	+++++	++++	·   		-		
1	+++++	+++++	+++++	<u> </u>	1	1	AVRG	l	0.000e+00		0.000e+00
 197 Dimethylformamide	+++++	+++++	+++++		+++++		-     		 		
1	+++++	+++++	+++++		1	1	AVRG	1	0.000e+001		0.000e+00
L98 4,4-Isopropylidene	+++++	+++++	+++++		+++++	++++			- 		
	+++++	+++++	. ++++	<u> </u>	1	1	LINR	0.000e+00	0.000e+00		0.000e+00
 199 1,2,3,4-tetrahyrdronapthalene	+++++				+++++	+++++	-   		 		
1	+++++	+++++	+++++	1	1	1	AVRG		0.000e+00		0.000e+00
 200 Decane	+++++		+++++				-		 		
İ	+++++	++++	+++++	1	1	1	AVRG	:	0.000e+00		0.000e+00
						1	-		-		

Page 27 Report Date: 19-Jan-2011 16:21

## GCAL, Inc.

## INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD Target Version : 3.50 Intégrator : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb Method file

	0.2000	1	2	10	50	80	1 1	Coefficien	ts	%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b m1	m2	or R^2
	120	160	200		 		1 1			
	Level 7	Level 8	Level 9		 					
201 Octadecane	+++++	+++++	+++++	+++++	+++++	+++++		I		1 1
	+++++	+++++	+++++		 		AVRG	0.000e+0	•	0.000e+00
202 1,2-Dinitrobenzene	+++++	+++++	++++	+++++	++++	+++++	1 1		1	1
	+++++	+++++	+++++	 	 		AVRG	0.000e+0	•	0.000e+00
203 1-Chloronaphthalene	+++++	+++++	+++++	++++	++++	+++++	1 1	i	1	1
	+++++	+++++	+++++				AVRG	0.000e+0	0	0.000e+00
3 2-Fluorophenol	+++++	+++++	++++	1.21111	1.27164	1.24307	1 1	1	1	1 1
	1.26200			•	 		AVRG	1.2441	7  -	2.39270
4 Phenol-d5	+++++	+++++	+++++		1.39565			i	i	i
	1.37844	1.36220	1.26333	•	 		AVRG	1.3469	6   -	3.43198
19 Nitrobenzene-d5	+++++	+++++			0.33009			İ	i	i i
	0.33018		0.32382	•	 		AVRG	0.3264		1.65092
37 2-Fluorobiphenyl	+++++	+++++	++++	1.29729	1.32853	•		İ	i	i
	1.32318	1.34952	1.29568	•	 		AVRG	1.3124	5	1.95090
					l	l	.ll		1	

Report Date: 19-Jan-2011 16:21 Page 28

## GCAL, Inc.

## INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD Target Version : 3.50
Integrator : HP R'
Method file : /var : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb

   Compound	0.2000   Level 1	1     Level 2	2   Level 3	10 Level 4	50 Level 5		  Curve	•	Coefficients m1	m2	%RSD     or R^2
 	120   Level 7	   160     Level 8	200   Level 9			1 	   	 			1   
	+++++   0.14256	+++++	+++++	0.12937	0.12812	0.13079	I  AVRG	 			=======   
\$ 70 Terphenyl-d14	+++++   0.83953	+++++	+++++		0.80660	0.82578	1	   	0.79244		     6.40386
1									-		

#### INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2010 10:24 End Cal Date : 12-JAN-2011 10:37

Quant Method : ISTD Target Version : 3.50 Intégrator : HP RTE

: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m : 18-Jan-2011 09:22 dlb Method file

Cal Date

|Average %RSD Results. |Calculated Average %RSD = 8.19064 |Maximum Average %RSD = 15.00000 |* Passed Average %RSD Test.

ı	Curve	1	Formula	1	Units	- 
١		: :		=		=
1	Averaged	١	Amt = Rsp/m1	١	Response	1
1	Linear	I	Amt = b + Rsp/m1	1	Response	١
1	Quad	١	$Amt = b + m1*Rsp + m2*Rsp^2$	١	Response	١
1.				.   _		_1

Data File: /var/chem/MSSV4.i/2110112.s.b/e7907.d

Report Date: 19-Jan-2011 16:27

GCAL, Inc.

## RECOVERY REPORT

Client Name: 42-7-10 Client SDG: 2110112.s

Sample Matrix: LIQUID Fraction: SV

Lab Smp Id: 1600 Client Smp ID: STDICV

Level: LOW Operator: KCB
Data Type: MS DATA SampleType: LCS
SpikeList File: icv70.spk Quant Type: ISTD

Sublist File: SA8270.sub

Method File: /var/chem/MSSV4.i/2110112.s.b/8270CE_04.m

Misc Info: STDICV*MSSV~7006~*

1		CONC	CONC	8	1
SPIKE	COMPOUND	ADDED	RECOVERED	RECOVERED	LIMITS
<b> </b>		ug/L	ug/L		
   1	n-Nitrosodimethylamine	50.0	48.1	96.23	70-130
	Pyridine	50.0	43.8		170-130
	Phenol +	50.0	51.2	102.35	170-130
I 5	Aniline	50.0	46.5	93.00	170-130
7	bis(-2-Chloroethyl)Ether	50.0	48.2	96.50	70-130
l 8	2-Chlorophenol	50.0	50.1	100.21	70-130
J 9	1,3-Dichlorobenzene	50.0	49.3	98.65	70-130
11	1,4-Dichlorobenzene +	50.0	49.1	98.13	70-130
13	1,2-Dichlorobenzene	50.0	48.2	96.41	70-130
12	Benzyl alcohol	50.0	49.0	98.02	70-130
15	2-Methylphenol	50.0	51.0	102.02	70-130
14	Bis(2-chloroisopropyl)ether	50.0	49.8	99.54	70-130
17	3- & 4-Methylphenol	50.0	52.2	104.39	70-130
16	N-Nitroso-di-n-propylamine++	50.0	51.7	103.42	70-130
18	Hexachloroethane	50.0	47.6	95.24	70-130
20	Nitrobenzene	50.0	50.1	100.16	70-130
21	Isophorone	50.0	51.7	103.31	70-130
22	2-Nitrophenol +	50.0	50.3	100.63	70-130
23	2,4-Dimethyphenol	50.0	52.1	104.12	70-130
25	Benzoic Acid	50.0	53.4	106.87	70-130
24	bis(-2-Chloroethoxy)methane	50.0	50.1	100.23	70-130
26	2,4-Dichlorophenol +	50.0	50.0	99.99	70-130
27	1,2,4-Trichlorobenzene	50.0	49.5	98.96	70-130
29	Naphthalene	50.0	49.6	99.18	70-130
30	4-Chloroaniline	50.0	55.0	110.01	70-130
31	Hexachlorobutadiene +	50.0	48.4	96.71	70-130
32	4-Chloro-3-Methylphenol +	50.0	52.1	104.12	70-130
33	2-Methylnaphthalene	50.0	49.7	99.40	70-130
34	Hexachlorocyclopentadiene ++	50.0	52.6		70-130
35	2,4,6-Trichlorophenol +	50.0	47.6	95.14	70-130
36	2,4,5-Trichlorphenol	50.0	51.6	103.22	70-130
38	2-Chloronaphthalene	50.0	50.4	100.88	70-130
39	2-Nitroaniline	50.0	51.2	102.39	70-130
***************************************					.1

SPIKE	COMPOUND	CONC	CONC   RECOVERED	% RECOVERED	  LIMIT
)	COLL COLL	ug/L	ug/L	RECOVERED	
40	Dimethylphthalate	50.0	51.2	102.46	.  <u></u>  70-13
41	2,6-Dinitrotoluene	50.0	52.9	105.77	70-13
42	Acenaphthylene	50.0	49.8	99.63	70-13
43	3-Nitroaniline	50.0	55.6	111.26	70-13
45	Acenaphthene +	50.0	50.0	99.92	70-13
	2,4-Dinitrophenol ++	50.0	57.0	113.92	70-13
49	4-Nitrophenol ++	50.0	53.0	105.93	70-13
48	2,4-Dinitrotoluene	50.0	54.6	109.18	
47	Dibenzofuran	50.0	50.5	100.93	70-13
50	Diethylphthalate	50.0	54.6	109.22	170-13
51	Fluorene	50.0	52.0	104.07	70-13
52	4-Chlorophenyl-phenylether	50.0	50.6	101.27	
55	N-nitrosodiphenylamine (1)+	50.0	50.2	100.35	170-1
53	4-Nitroaniline	50.0	54.9	109.75	170-1
54	4,6-Dinitro-o-cresol	50.0	49.9	99.74	70-1
56	Azobenzene	50.0	50.7	101.44	70-1
58	4-Bromophenyl-phenylether	50.0	49.8	99.57	
59	Hexachlorobenzene	50.0	48.9	97.85	
60	Pentachlorophenol +	50.0	50.5	100.95	70-1
62	Phenanthrene	50.0	51.0	102.08	70-1
63	Anthracene	50.0	52.5	105.08	170-1
65	Di-n-butylphthalate	50.0	54.7	109.32	70-1
67	Fluoranthene +	50.0	54.6	109.25	70-1
69	Pyrene	50.0	49.7	99.41	70-1
71	Butylbenzylphthalate	50.0	45.8	91.51	70-1
73	3,3'-Dichlorobenzidine	50.0	50.2	100.47	70-1
72	Benzo (a) anthracene	50.0	47.6	95.17	70-1
75	Chrysene	50.0	50.1	100.15	70-1
76	bis(2-Ethylhexyl)phthalate	50.0	45.1	90.20	70-1
77	Di-n-octylphthalate +	50.0	46.4	92.85	
78	Benzo(b) fluoranthene	50.0	44.5	89.06	
	Benzo(k)fluoranthene	50.0	52.1	104.30	•
80	Benzo(a)pyrene +	50.0	51.6	103.23	70-1
82	Indeno(1,2,3-cd)pyrene	50.0	44.9	89.78	
83	Dibenzo(a,h)anthracene	50.0	43.8	87.58	
	Benzo(g,h,i)perylene	50.0	45.5	90.94	
	Benzaldehyde	50.0	52.7	105.44	
156	Caprolactam	50.0	55.9	111.87	
	Biphenyl	50.0	50.5	100.92	
158	Atrazine	50.0   	58.7   	117.39	70-13
		CONC	CONC	 왕	

   SURROGATE COMPOUND		CONC ADDED		CONC RECOVERED		%   RECOVERED  L	IMITS!
SORROGATE COMEOUND	 	ug/L	1	ug/L		I I	
		100	. _   	48.9	.   _   	 48.86  1	0-120

Data File: /var/chem/MSSV4.i/2110114.s.b/e7972.d

Report Date: 14-Jan-2011 14:27

GCAL, Inc.

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSSV4.i Injection Date: 14-JAN-2011 14:42

Lab File ID: e7972.d Init. Cal. Date(s): 27-DEC-2010 12-JAN-2011

Analysis Type: WATER Init. Cal. Times: 10:24 10:37

Lab Sample ID: 1400 Quant Type: ISTD Method: /var/chem/MSSV4.i/2110114.s.b/8270CE_04.m

COMPOUND	  RRF /	I AMOUNT I	 RF50		MIN	 %D / %DRIFT	MAX	  CURVE TVP
=======================================	•	•	·					
2 Pyridine	1	.28278	1.31308	1.31308	0.050	2.36202	30.00000	Average
1 n-Nitrosodimethylamine	! 0	.66692	0.67946	0.67946	0.050	1.87909	30.00000	Average
\$ 3 2-Fluorophenol	1	.24417	1.24368	1.24368	0.050	-0.03921	30.00000	Average
\$ 4 Phenol-d5	1	.34696	1.31389	1.31389	0.050	-2.45556	30.00000	Average
5 Aniline	1 42	.21521	50.000001	1.26716	0.050	-15.56958	30.00000	Quadrati
6 Phenol +	1	.53925	1.53319	1.53319	0.050	-0.39389	20.00000	Average
7 bis(-2-Chloroethyl)Ether	1 0	.75300	0.74926	0.74926	0.050	-0.49690	30.00000	Average
8 2-Chlorophenol	1	.339961	1.33870	1.33870	0.050	-0.09354	30.00000	Average
9 1,3-Dichlorobenzene	1	.46702	1.46662	1.46662	0.050	-0.02788	30.00000	Average
11 1,4-Dichlorobenzene +	1	.496961	1.50940	1.50940	0.050	0.83095	20.00000	Average
12 Benzyl alcohol	1 0	.69098	0.65303	0.65303	0.050	-5.49227	30.00000	Average
13 1,2-Dichlorobenzene	1	.41528	1.38279	1.38279	0.050	-2.29562	30.00000	Average
15 2-Methylphenol	1	.08588	1.07753	1.07753	0.050	-0.76874	30.00000	Average
14 Bis(2-chloroisopropyl)ether	1	.387861	1.35599	1.35599	0.050	-2.29629	30.00000	Average
17 3- & 4-Methylphenol	1	.09705	1.08427	1.08427	0.050	-1.16480	30.00000	Average
16 N-Nitroso-di-n-propylamine+	1 0	.709661	0.66833	0.66833	0.050	-5.82331	30.00000	Average
18 Hexachloroethane	1 0	.54554	0.53946	0.53946	0.050	-1.11445	30.00000	Averag
\$ 19 Nitrobenzene-d5	1 0	.32649	0.32025	0.32025	0.050	-1.91013	30.00000	Averag
20 Nitrobenzene	1 0	.31120	0.30578	0.30578	0.050	-1.74375	30.00000	Averag
21 Isophorone	1 0	.49638	0.47889	0.47889	0.0501	-3.52475	30.00000	Average
22 2-Nitrophenol +	1 0	.20104	0.19911	0.19911	0.050	-0.96220	20.00000	Average
23 2,4-Dimethyphenol	1 0	.33764	0.34177	0.34177	0.050	1.22415	30.00000	Average
24 bis(-2-Chloroethoxy)methane	1 0	.34215	0.33177	0.33177	0.050	-3.03349	30.00000	Average
25 Benzoic Acid	1 0	.16310	0.12853	0.12853	0.050	-21.19961	30.00000	
26 2,4-Dichlorophenol +	1 0	.298361	0.294881	0.294881	0.0501	-1.16701	20.00000	_
27 1,2,4-Trichlorobenzene	1 0	.319601	0.324341	0.324341	0.0501	1.48143	30.000001	_
29 Naphthalene	. 1 0	.949181	0.94203	0.94203	0.0501	-0.754081	30.000001	=
30 4-Chloroaniline	•	.348641	0.344391	0.34439		-	30.000001	
31 Hexachlorobutadiene +	1 0	.18815	0.18935	0.18935		0.639431	20.000001	-
32 4-Chloro-3-Methylphenol +		.266191	0.242021	0.24202		-9.078041	20.000001	-
33 2-Methylnaphthalene	,	.64925	0.61121	0.61121		-5.859091	30.000001	,
145 1-Methylnapthalene		.59047	0.55555	0.555551		-5.91479	30.000001	_
34 Hexachlorocyclopentadiene +		.31922	0.39493	0.39493		23.71891	30.000001	-
35 2,4,6-Trichlorophenol +		.13391	50.000001	0.419991		-1.73218	20.000001	,
36 2,4,5-Trichlorphenol	·	.41250	0.42581	0.42581		3.22640	30.000001	
\$ 37 2-Fluorobiphenyl		.31245	1.36347	1.36347		3.88741	30.000001	-
				2.0001/1			30.000001	01 490

Data File: /var/chem/MSSV4.i/2110114.s.b/e7972.d

Report Date: 14-Jan-2011 14:27

## GCAL, Inc.

#### CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSSV4.i Injection Date: 14-JAN-2011 14:42

Lab File ID: e7972.d Init. Cal. Date(s): 27-DEC-2010 12-JAN-2011

Analysis Type: WATER Init. Cal. Times: 10:24 10:37 Lab Sample ID: 1400 Quant Type: ISTD

Method: /var/chem/MSSV4.i/2110114.s.b/8270CE_04.m

ł ·	11	1	CCAL   MIN	1	MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF50   RRF  %	D / %DRIFT %D	/ %DRIFT	CURVE TYPE
	·		, ,	•		
38 2-Chloronaphthalene	1.14504	1.19007	1.19007 0.050	3.93221	30.000001	Averaged
39 2-Nitroaniline	0.41051	0.39737	0.39737 0.050	-3.20076	30.000001	Averaged
40 Dimethylphthalate	1.22039	1.20518	1.20518 0.050	-1.24637	30.000001	Averaged
41 2,6-Dinitrotoluene	0.26238	0.25942	0.25942 0.050	-1.13134	30.000001	Averaged
42 Acenaphthylene	1.56191	1.55665	1.55665 0.050	-0.33682	30.000001	Averaged
43 3-Nitroaniline	0.31626	0.30520	0.30520 0.050	-3.49599	30.000001	Averaged
45 Acenaphthene +	1.06196	1.04291	1.04291 0.050	-1.79459	20.000001	Averaged
46 2,4-Dinitrophenol ++	46.07757	50.00000	0.15430 0.050	-7.84485	30.000001	Quadratio
49 4-Nitrophenol ++	0.16921	0.15400	0.15400 0.050	-8.98792	30.000001	Averaged
47 Dibenzofuran	1.53557	1.54681	1.54681 0.050	0.73223	30.000001	Averaged
48 2,4-Dinitrotoluene	0.34425	0.34107	0.34107 0.050	-0.92206	30.000001	Averaged
50 Diethylphthalate	1.08163	1.07156	1.07156 0.050	-0.93052	30.000001	Averaged
52 4-Chlorophenyl-phenylether	0.55830	0.53653	0.53653 0.050	-3.90055	30.000001	Averaged
51 Fluorene	1.13875	1.14513	1.14513 0.050	0.56038	30.00000	Averaged
53 4-Nitroaniline	0.30497	0.30051	0.30051 0.050	-1.46214	30.000001	Averaged
54 4,6-Dinitro-o-cresol	46.81279	50.00000	0.14369 0.050	-6.37443	30.000001	Linear
55 N-nitrosodiphenylamine (1)+	0.54663	0.54760	0.54760 0.050	0.17764	20.00000	Averaged
56 Azobenzene	0.75125	0.78301	0.78301 0.050	4.22804	30.000001	Averaged
\$ 57 2,4,6-Tribromophenol	0.13394	0.12812	0.12812 0.050	-4.34502	30.000001	Averaged
58 4-Bromophenyl-phenylether	0.20383	0.20553	0.20553 0.050	0.833301	30.000001	Averaged
59 Hexachlorobenzene	0.21085	0.20425	0.20425 0.050	-3.13051	30.000001	Averaged
60 Pentachlorophenol +	45.91550	50.00000	0.14035 0.050	-8.16900	20.00000	Linear
62 Phenanthrene	1.06876	1.02833	1.02833 0.050	-3.78294	30.000001	Averaged
63 Anthracene	1.04248	1.05600	1.05600 0.050	1.29659	30.000001	Averaged
64 Carbazole	0.98112	0.99891	0.99891 0.050	1.81359	30.000001	Averaged
65 Di-n-butylphthalate	1.07293	1.07844	1.07844 0.050	0.51396	30.000001	Averaged
67 Fluoranthene +	0.94668	0.98745	0.98745 0.050	4.30593	20.000001	Averaged
68 Benzidine	0.11461	0.08736	0.08736 0.050	-23.77676	30.00000	Averaged
69 Pyrene	1.23232	1.43075	1.43075 0.050	16.10287	30.000001	Averaged
\$ 70 Terphenyl-d14	0.792441	0.87054	0.87054 0.050	9.85603	30.000001	Averaged
71 Butylbenzylphthalate	49.31672	50.000001	0.58774 0.050	-1.36656	30.000001	Linear
73 3,3'-Dichlorobenzidine	48.81923	50.000001	0.35008 0.050	-2.36154	30.000001	Linear
72 Benzo(a)anthracene	1.11425	1.05674	1.05674 0.050	-5.16178	30.000001	Averaged
76 bis(2-Ethylhexyl)phthalate	44.936081	50.000001	0.67478 0.050	-10.12784	30.000001	Linear
75 Chrysene	1.202251	1.23900	1.23900 0.050	3.05605	30.000001	Averaged
1			1 1		1	

Data File: /var/chem/MSSV4.i/2110114.s.b/e7972.d

Report Date: 14-Jan-2011 14:27

GCAL, Inc.

#### CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSSV4.i Injection Date: 14-JAN-2011 14:42

Lab File ID: e7972.d Init. Cal. Date(s): 27-DEC-2010 12-JAN-2011

Analysis Type: WATER Init. Cal. Times: 10:24 10:37

Lab Sample ID: 1400 Quant Type: ISTD Method: /var/chem/MSSV4.i/2110114.s.b/8270CE_04.m

l .	1	_ 1	1	CCAL   N	MIN	1	MAX	i i
COMPOUND	RRI	F / AMOUNT	RF50	RRF50   I	RRF	%D / %DRIFT %	) / %DRIFT	CURVE TYPE
	===== ===	-	======= =	=======================================	====	======== ==		=======================================
77 Di-n-octylphthalate +	1	42.88036	50.00000	0.87516 0.	.050	-14.23928	20.00000	Linear
78 Benzo(b)fluoranthene	1	44.32577	50.000001	0.98031 0.	.050	-11.34847	30.00000	Quadratic
79 Benzo(k)fluoranthene	1	1.35899	1.47756	1.47756 0	.050	8.72497	30.00000	Averaged
80 Benzo(a)pyrene +	1	1.03989	1.05500	1.05500 0	.050	1.45288	20.00000	Averaged
82 Indeno(1,2,3-cd)pyrene	1	40.88510	50.00000	0.91903 0	.050	-18.22980	30.00000	Linear
83 Dibenzo(a,h)anthracene	1	43.84797	50.00000	0.87180 0.	.050	-12.30406	30.00000	Linear
84 Benzo(g,h,i)perylene	1	46.33714	50.00000	1.07212 0	.050	-7.32572	30.00000	Linear
M 66 Total Methylphenol	1	1.09146	1.08090	1.08090 0	.050	-0.96778	30.00000	Averaged
91 Acetophenone	1	1.30490	1.26843	1.26843 0.	.050	-2.79451	30.00000	Averaged
155 Benzaldehyde	1	51.78637	50.00000	0.3798710.	.050	3.57275	30.00000	Quadratic
156 Caprolactam	1	0.07027	0.06003	0.06003 0.	.050	-14.57457	30.00000	Averaged
157 Biphenyl	1	0.71458	0.66136	0.66136 0.	.050	-7.44768	30.00000	Averaged
158 Atrazine	1	0.11879	0.13083	0.13083 0.	.050	10.12892	30.00000	Averaged
174 1,4-Dioxane	1	51.22342	50.00000	0.45777 0.	.050	2.44685	30.00000	Linear
	. 1	ı	1	1	1	1		1

Average %D / Drift Results.	ı
Calculated Average %D/Drift = 4.7	/3174
Maximum Average %D/Drift = 30.0	00000
* Passed Average %D/Drift Test.	1
	1

Data File: /var/chem/MSSV4.i/2110117.s.b/e8008.d

Report Date: 17-Jan-2011 14:21

GCAL, Inc.

#### CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSSV4.i Injection Date: 17-JAN-2011 08:38

Lab File ID: e8008.d Init. Cal. Date(s): 27-DEC-2010 12-JAN-2011

Analysis Type: WATER Init. Cal. Times: 10:24 10:37

Lab Sample ID: 1400 Quant Type: ISTD Method: /var/chem/MSSV4.i/2110117.s.b/8270CE_04.m

	11	1	CCAL   MIN	1	MAX	
COMPOUND	RRF / AMOUNT	RF50		D / %DRIFT %D		
2 Pyridine	-   1.28278	1.44319	1.44319 0.050	12.50427	30.00000	Averaged
1 n-Nitrosodimethylamine	0.666921	0.67383	0.67383 0.050	1.03516	30.000001	Averaged
\$ 3 2-Fluorophenol	1.24417	1.27244	1.27244 0.050	2.272461	30.000001	Averaged
\$ 4 Phenol-d5	1.34696	1.34552	1.34552 0.050	-0.10666	30.000001	Averaged
5 Aniline	41.51068	50.00000	1.25562 0.050	-16.97863	30.000001	Quadratio
6 Phenol +	1.53925	1.56060	1.56060 0.050	1.38687	20.000001	Average
7 bis(-2-Chloroethyl)Ether	0.753001	0.77644	0.77644 0.050	3.11301	30.000001	Average
8 2-Chlorophenol	1.33996	1.38542	1.38542 0.050	3.39289	30.000001	Average
9 1,3-Dichlorobenzene	1.46702	1.50131	1.50131 0.050	2.33713	30.000001	Average
11 1,4-Dichlorobenzene +	1.49696	1.51178	1.51178 0.050	0.99005	20.000001	Average
12 Benzyl alcohol	0.690981	0.667391	0.66739 0.050	-3.41529	30.00000	Average
13 1,2-Dichlorobenzene	1.41528	1.40542	1.40542 0.050	-0.69693	30.000001	Average
15 2-Methylphenol	1.08588	1.06532	1.06532 0.050	-1.89318	30.000001	Average
14 Bis(2-chloroisopropyl)ether	1.38786	1.39339	1.39339 0.050	0.39853	30.00000	Average
17 3- & 4-Methylphenol	1.09705	1.08652	1.08652 0.050	-0.96032	30.000001	Average
16 N-Nitroso-di-n-propylamine+	0.70966	0.66552	0.66552 0.050	-6.21964	30.000001	Average
18 Hexachloroethane	0.54554	0.55216	0.55216 0.050	1.21323	30.000001	Average
\$ 19 Nitrobenzene-d5	0.326491	0.32814	0.32814 0.050	0.50548	30.000001	Average
20 Nitrobenzene	0.31120	0.31166	0.31166 0.050	0.14619	30.000001	Average
21 Isophorone	0.496381	0.48588	0.48588 0.050	-2.11640	30.000001	Average
22 2-Nitrophenol +	0.20104	0.20996	0.20996 0.050	4.43605	20.000001	Average
23 2,4-Dimethyphenol	0.33764	0.34655	0.34655 0.050	2.64037	30.000001	Average
24 bis(-2-Chloroethoxy)methane	0.34215	0.33456	0.33456 0.050	-2.21678	30.000001	Average
25 Benzoic Acid	0.16310	0.12989	0.12989 0.050	-20.36367	30.000001	Average
26 2,4-Dichlorophenol +	0.298361	0.28972	0.28972 0.050	-2.89564	20.000001	Average
27 1,2,4-Trichlorobenzene	0.31960	0.31729	0.31729 0.050	-0.72243	30.000001	Average
29 Naphthalene	0.94918	0.93108	0.93108 0.050	-1.90722	30.000001	Average
30 4-Chloroaniline	0.34864	0.344431	0.34443 0.050	-1.20617	30.000001	Average
31 Hexachlorobutadiene +	0.18815	0.18602	0.18602 0.050	-1.12873	20.00000	Average
32 4-Chloro-3-Methylphenol +	0.26619	0.25097	0.25097 0.050	-5.71642	20.00000	Average
33 2-Methylnaphthalene	0.64925	0.60925	0.60925 0.050	-6.16101	30.00000	Average
145 1-Methylnapthalene	0.59047	0.56084	0.56084 0.050	-5.01803	30.00000	Average
34 Hexachlorocyclopentadiene +	0.31922	0.39788	0.39788 0.050	24.64415	30.00000	Average
35 2,4,6-Trichlorophenol +	49.07052	50.00000	0.41943 0.050	-1.85896	20.00000	Linea
36 2,4,5-Trichlorphenol	0.41250	0.44390	0.44390 0.050	7.61181	30.00000	Average
\$ 37 2-Fluorobiphenyl	1.31245	1.35749	1.35749 0.050	3.43117	30.000001	Average
			1 1	1	11	

Data File: /var/chem/MSSV4.i/2110117.s.b/e8008.d

Report Date: 17-Jan-2011 14:21

## GCAL, Inc.

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSSV4.i Injection Date: 17-JAN-2011 08:38

Lab File ID: e8008.d Init. Cal. Date(s): 27-DEC-2010 12-JAN-2011

Analysis Type: WATER Init. Cal. Times: 10:24 10:37

Lab Sample ID: 1400 Quant Type: ISTD Method: /var/chem/MSSV4.i/2110117.s.b/8270CE_04.m

I .		-1	CCAL   MIN	1	MAX	
COMPOUND	RRF / AMOUNT	RF50		%D / %DRIFT %I		
38 2-Chloronaphthalene		1.19855	1.19855 0.05	•	30.00000	· .
39 2-Nitroaniline	0.41051	0.41886	0.41886 0.05	2.03339	30.00000	Averaged
40 Dimethylphthalate	1.22039	1.16389	1.16389 0.05	0  -4.62932	30.00000	Averaged
41 2,6-Dinitrotoluene	0.26238	0.25793	0.25793 0.050	-1.69861	30.00000	Averaged
42 Acenaphthylene	1.56191	1.54903	1.54903 0.050	0  -0.82449	30.00000	Averaged
43 3-Nitroaniline	0.31626	0.29927	0.29927 0.050	-5.37039	30.00000	Averaged
45 Acenaphthene +	1.06196	1.06652	1.06652 0.050	0.42946	20.00000	Averaged
46 2,4-Dinitrophenol ++	46.74133	50.000001	0.15678 0.050	0  -6.51734	30.00000	Quadratic
49 4-Nitrophenol ++	0.16921	0.14069	0.14069 0.050	0  -16.85613	30.00000	Averaged
47 Dibenzofuran	1.53557	1.50893	1.50893 0.050	-1.73445	30.00000	Averaged
48 2,4-Dinitrotoluene	0.34425	0.31592	0.31592 0.050	-8.22890	30.00000	Averaged
50 Diethylphthalate	1.08163	1.06226	1.06226 0.050	-1.79050	30.000001	Averaged
52 4-Chlorophenyl-phenylether	0.55830	0.53569	0.53569 0.050	-4.05114	30.00000	Averaged
51 Fluorene	1.13875	1.13014	1.13014 0.050	0  -0.75676	30.000001	Averaged
53 4-Nitroaniline	0.30497	0.27225	0.27225 0.050	)  -10.73153	30.000001	Averaged
54 4,6-Dinitro-o-cresol	45.28355	50.00000	0.13840 0.050	-9.43291	30.000001	Linear
55 N-nitrosodiphenylamine (1)+	0.54663	0.58869	0.58869 0.050	7.69565	20.000001	Averaged
56 Azobenzene	0.75125	0.828991	0.82899 0.050	10.34882	30.000001	Averaged
\$ 57 2,4,6-Tribromophenol	0.13394	0.12105	0.12105 0.050	9.62502	30.00000	Averaged
58 4-Bromophenyl-phenylether	0.20383	0.21686	0.21686 0.050	0  6.39521	30.00000	Averaged
59 Hexachlorobenzene	0.21085	0.20501	0.20501 0.050	-2.76776	30.00000	Averaged
60 Pentachlorophenol +	46.51836	50.000001	0.14239 0.050	-6.96328	20.00000	Linear
62 Phenanthrene	1.06876	1.11894	1.11894 0.050	4.69509	30.000001	Averaged
63 Anthracene	1.04248	1.07636	1.07636 0.050	3.24985	30.000001	Averaged
64 Carbazole	0.98112	0.93334	0.93334 0.050	-4.86993	30.000001	Averaged
65 Di-n-butylphthalate	1.07293	1.07783	1.07783 0.050	0.456961	30.00000	Averaged
67 Fluoranthene +	0.94668	0.86493	0.86493 0.050	-8.63612	20.00000	Averaged
68 Benzidine .	0.11461	0.06446	0.06446 0.050	-43.76294	30.00000	Averaged
69 Pyrene	1.23232	1.56145	1.56145 0.050	26.70862	30.00000	Averaged
\$ 70 Terphenyl-d14	0.79244	0.92944	0.92944 0.050	17.28849	30.00000	Averaged
71 Butylbenzylphthalate	52.99382	50.00000	0.63290 0.050	5.98764	30.00000	Linear
73 3,3'-Dichlorobenzidine	50.46831	50.00000	0.36214 0.050	0.93663	30.00000	Linear
72 Benzo(a)anthracene	1.11425	1.11067	1.11067 0.050	-0.32203	30.000001	Averaged
76 bis(2-Ethylhexyl)phthalate	50.84391	50.00000	0.76788 0.050	1.68781	30.00000	Linear
75 Chrysene	1.20225	1.18525	1.18525 0.050	-1.41444	30.000001	Averaged

Data File: /var/chem/MSSV4.i/2110117.s.b/e8008.d

Report Date: 17-Jan-2011 14:21

GCAL, Inc.

#### CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSSV4.i

Injection Date: 17-JAN-2011 08:38

Lab File ID: e8008.d

Init. Cal. Date(s): 27-DEC-2010 12-JAN-2011

Init. Cal. Times: 10:24

10:37

Page 3

Analysis Type: WATER Lab Sample ID: 1400

Quant Type: ISTD

Method: /var/chem/MSSV4.i/2110117.s.b/8270CE_04.m

	I			CCAL   MIN	I	MAX	1
COMPOUND	RR	F / AMOUNT	RF50	RRF50   RRF   %	D / %DRIFT %D	/ %DRIFT	CURVE TYPE
		=======================================	=======================================				
77 Di-n-octylphthalate +	I	50.34193	50.00000	1.07169 0.050	0.68385	20.00000	Linear
78 Benzo(b) fluoranthene	1,	47.69499	50.00000	1.06153 0.050	-4.61002	30.000001	Quadratic
79 Benzo(k)fluoranthene	1	1.35899	1.47917	1.47917 0.050	8.84275	30.00000	Averaged
80 Benzo(a)pyrene +		1.03989	1.07634	1.07634 0.050	3.50563	20.000001	Averaged
82 Indeno(1,2,3-cd)pyrene	1	41.00736	50.00000	0.92212 0.050	-17.98528	30.000001	Linear
83 Dibenzo(a,h)anthracene	1	43.23254	50.000001	0.85819 0.050	-13.53493	30.00000	Linear
84 Benzo(g,h,i)perylene	1	41.79220	50.000001	0.95800 0.050	-16.41561	30.00000	Linear
M 66 Total Methylphenol	1	1.09146	1.07592	1.07592 0.050	-1.42436	30.00000	Averaged
91 Acetophenone	1 :	1.30490	1.25351	1.25351 0.050	-3.93798	30.00000	Averaged
155 Benzaldehyde	1	36.41362	50.00000	0.30293 0.050	-27.17276	30.000001	Quadratic
156 Caprolactam	ı	0.07027	0.062241	0.06224 0.050	-11.42854	30.00000	Averaged
157 Biphenyl	1	0.71458	0.65745	0.65745 0.050	-7.99447	30.00000	Averaged
158 Atrazine	1	0.11879	0.12838	0.12838 0.050	8.068881	30.00000	Averaged
174 1,4-Dioxane	1	51.91553	50.000001	0.46387 0.050	3.83105	30.000001	Linear

Average %D / Drift Results.	I
=====================================	==
Calculated Average %D/Drift = 6.19585	١
Maximun Average %D/Drift = 30.00000	١
* Passed Average %D/Drift Test.	1
I	1

## SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL												
Lab Code: LA024 Case No.:		SAS	No.:	SE	OG No.: 21101	1405						
Lab File ID ( Standard ): 2110114/e7972		Date	/14/11	Time: 1442								
Instrument ID: MSSV4		GC C	olumn: RTX-5	VIS-30	ID: .25	(mm)						
Analytical Batch: 448983	Method: SW-846 8270											
	I:	S 1	IS	2	IS.							
	Area	RT	Area	RT	Area	RT						
STANDARD	413290	3.16	193833	4.23	282310	5.14						
EPA Sample No.	#	<del>‡</del>	# #		# #	#						
I . MB912529	390492	3.16	194040	4.23	265019	5.14						
. T-15-F MSD	430512	3.16	217830	4.23	297327	5.14						
T-21-F	426254	3.16	190897	4.23	239002	5.14						
NC-0-0.3	374183	3.16	169222	4.23	230571	5.14						
T-2-WEST	402967	3.16	186153	4.23	242141	5.14						
. T-6-FLOOR	426534	3.16	186213	4.23	243305	5.14						
T-6-EAST	431891	3.16	196907	4.23	261558	5.14						
T-6-SOUTH	413858	3.16	197126	4.23	260879	5.14						
. T-6-NORTH	410268	3.16	192810	4.23	252106	5.14						
. BLIND DUP	432228	3.16	194772	4.23	255574	5.14						
SC-W	333542	3.16	150529	4.23	212227	5.14						
LCS912530	350297	3.16	166774	4.23	232945	5.14						
. SC-E	447213	3.16	215381	4.23	287272	5.14						
LCSD912531	372481	3.16	178672	4.23	254533	5.14						
. EQUIPMENT BLANK	281450	3.16	137066	4.23	202373	5.14						
. MB912490	354388	3.16	180114	4.23	253895	5.14						
LCS912491	343667	3.16	169127	4.23	235722	5.14						
. LCSD912492	484846	3.16	232203	4.23	298478	5.14						
. T-15-F	434600	3.16	222302	4.23	318057	5.14						
) . T-15-F MS	355249	3.16	162522	4.23	219100	5.14						

IS 1 ID: Naphthalene-d8
IS 2 ID: Acenaphthene-d10
IS 3 ID: Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREALOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag internal standard values with an asterisk.

^{*} Values outside of QC limits.

## 8B SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

L	ab Name:	**	Cont	ract			Pin roconi di sallac				iana.	
	Lab Code: Case No.:  Lab File ID ( Standard ): 2110114/e7972					.:						
L				Date	Ana	alyzed: 01/14/11			Time: 1442			
In	Instrument ID: MSSV4				Colu	ımn: RTX-5M	*********	ID: .25	(mm	1)		
				Meth	od:	SW-846 82	?70			200000000000000000000000000000000000000	***************************************	xxxxx
			IS	IS 4		<i>IS</i> 5			<i>IS</i> 6			
	<u> </u>		1	RT		Area	RT		Area		RT	
	STANDARD			8.07		196359	6.95		120746		2.42	
			#		#	#		#		#		#
1.	MB912529	110011	Τ	8.07	П	147738	6.95	Т	109326	П	2.43	
2 .	T-15-F MSD	160991	Π	8.07	П	192516	6.95	T	125299	П	2.42	
3.	T-21-F	165633	Π	8.08		160347	6.95		132632	П	2.43	
4.	NC-0-0.3	243561		8.08		196972	6.96	T	116852	П	2.43	
5.	T-2-WEST	195075		8.08		173021	6.95		118807		2.43	
6.	T-6-FLOOR	204739		8.08		182758	6.95		130748		2.43	
7.	T-6-EAST	216971		8.07		185618	6.95		119937		2.43	
8.	T-6-SOUTH	218837		8.08		203066	6.95		125574		2.43	
9.	T-6-NORTH	208009		8.08		185357	6.95		121593		2.43	
10 .	BLIND DUP	218439		8.08		194026	6.95		124904		2.43	
	SC-W	236097		8.08		187200	6.96		107541		2.42	
12 .	LCS912530	126441	Γ	8.07		152802	6.96		104684		2.43	
13 .	SC-E	221458		8.08		209057	6.95		132651		2.43	
14 .	LCSD912531	133745		8.07		169957	6.95		106123		2.43	
15 .	EQUIPMENT BLANK	101197	Π	8.07		128135	6.95		83106		2.42	
16 .	MB912490	144498		8.07		180527	6.95		101409		2.42	
17 .	LCS912491	146282		8.07		181324	6.96		100755		2.42	
18 .	LCSD912492	156083	Γ	8.07		205243	6.96		138205	П	2.43	

197329

172241

6.95

6.96

124128

105934

2.42

2.42

IS 4 ID: Perylene-d12 IS 5 ID: Chrysene-d12

T-15-F

T-15-F MS

19

20 .

IS 6 ID: 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREALOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag internal standard values with an asterisk.

168475

153371

8.07

8.07

^{*} Values outside of QC limits.

# 8B SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL			Contrac	ot:							•••••
Lab Code: LA024 Case No.:	SAS No.:				S	DG N	lo.: 211	211011405			
Lab File ID ( Standard ): 2110117/e8008			Date Analyzed: 01/1		01/1	17/11		Time: 0838			
Instrument ID: MSSV4			GC Column: RTX-5MS-30			S-30		ID: .25		(mm)	
Analytical Batch: 449083			Method	: SW-84	6 827	70					
	IS 1				IS 2		IS 3				
	Area		RT	Area	7	RT		Area		RT	
STANDARD	550303		3.17	25717	7	4.23		348019		5.14	
EPA Sample No.	;	#	#	ŧ	#		#		#		#
1 . T-21-F	391142	3	.16	184711		4.23		249272		5.14	

IS 1 ID: Naphthalene-d8
IS 2 ID: Acenaphthene-d10
IS 3 ID: Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREALOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

[#] Column used to flag internal standard values with an asterisk.

^{*} Values outside of QC limits.

# 8B SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Contract:

y-000000000000000000000000000000000000		***************************************				200000000000000000000000000000000000000	*************	*******		******	50505000000000000000000000000000000000
Lab Code:	Case No.:			SAS N	lo.:			DG	No.:		
Lab File ID ( Standard ):	2110117/e8008	***************************************		Date A	Ana	lyzed: 01	/17/11		Time: 0	838	
Instrument ID: MSSV4				GC Cd	olun	nn: RTX-5I	MS-30		ID: .25	~~~~	(mm)
				Metho	d:	SW-846 8	270				
			IS 4	1		I.	S 5			IS	6
		Area		RT		Area	RT		Area		RT
STANDARD		163880		8.08		198959	6.96		162920		2.43
			#	;	#	#		#		#	#
. T-21-F		121766		8.08	Т	152267	6.96	Π	113225	T	2.43

IS 4 ID: Perylene-d12 IS 5 ID: Chrysene-d12

Lab Name:

IS 6 ID: 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREALOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag internal standard values with an asterisk.

^{*} Values outside of QC limits.

### BASE NEUTRAL/ACID SAMPLE PREPARATION FORM

		OIL OTHER []						7
IENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	BN pH		SAMPLE TYPE	COMMENTS	METHOD
HBN 448916 27518]	912490	30.1	1.0			МВ	•	LIQUID LIQUID/3520
HBN 448916 27518	912491	302	1-0			LCS	•	•
or HBN [EXTO/2751	912492	30.3	1-0			LCSD		SEPARATORY FUNNEL/3510
	21101140501	301	1-0			SAMPLE	625_SPK	
MS	21101140502	30.0	1.0			MS	625_SPK	SONICATOR/358
M\$D	21101140503		1-0			MSD	625_SPK	1
	21101140504		1-0			SAMPLE		SOXHLET/3540
.3	21101140505	30.2	1-0			SAMPLE	625_SPK	
ST	21101140506		1-0			SAMPLE	625_SPK	GPC
OOR	21101140507	301	10			SAMPLE	625_SPK	CLEANUP/3640
ST	21101140508	30D	1-0			SAMPLE	625_SPK	WASTE
UTH	21101140509	36.4	1-0			SAMPLE	625_SPK	DILUTION/3580
RTH	21101140510	30,0	1-0			SAMPLE	625_SPK	TCLP EXTRACTION
DUP	21101140511	36,1	1.0			FLDDUF	625_SPK	FLUID 1
	21101140512		10				625_SPK	TCLP EXTRACTION
	21101140513	0.0	1.0			SAMPLE	625_SPK	FLUID 2
·	21161140801	30 A	1.0		,	······		MECL2/Acetone No:
							<del> </del>	ACETONE LOT
							<del> </del>	NO: 105 788
							<u> </u>	MeCL2 Lot No:
								105359
								Sodium Sulfate
								Lot No: 104/19
								10311 )
				_				
						***		
PREI	· ARATIO	PARATION INCLUDE DETE	PARATION INCLUDE DETERMINATION O	PARATION INCLUDE DETERMINATION OF SAMPLE VO	PARATION INCLUDE DETERMINATION OF SAMPLE VOLUM	PARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIG	PARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVE	PARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION

SURROGATE ID	567-22	8270 SPIKE ID	625 SPIKE ID	485-46-2	TECHNICIAN	DATE ,
VOLUME	1-02	VOLUME	VOLUME	Land	Chaunes	1/14/11
CONCENTRATION	8 Tropies but	CONCENTRATION	CONCENTRATION	100 walnut	U	1/14/11
NaOH		ACID			SUPERVISOR	DATE '
SPIKE WITNESS	2/9	2			2 A	1/14/11

Revision 3, 10/04/2010

### BASE NEUTRAL/ACID SAMPLE PREPARATION FORM

MATRIX:   WATER   SOIL   OTHER   LEVEL:   LOW   MEDIUM	EX DA	TRACTION TE/TIME	ON : 1-14-11	Sta	art: 1135	E	End:	1306	-	BATO NO:	СН	44	8924	1270(62551K)
CLEENT   CLEENT ID   GCAL ID   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOLL/MT   WOL	M	ATRIX:								LEVE	L:	LC		,
ACCOUNT   EXTOC/7520    912530   1000   1.0   2    2   LCS   -     LOUID/9520     2   CC   LCS   Gr HBN   448924   EXTOZ/7520   912531   1000   1.0   2    L CS   C   LCS   -     SEPARATOR   FUNNEL/9511   1000   1.0   2    L CS   C   LCS   -     SEPARATOR   FUNNEL/9511   1000   1.0   2    L CS   C   LCS   -     SEPARATOR   FUNNEL/9511   1000   1.0   2    L CS   C   LCS   -     SEPARATOR   FUNNEL/9511   1000   1.0   2    L CS   C   LCS   -     SEPARATOR   FUNNEL/9511   1000   1.0   2    L CS   LCS   -   SEPARATOR   FUNNEL/9511   1000   1.0   2    L CS   LCS   -     SEPARATOR   FUNNEL/9511   1000   1.0   2    L CS   LCS   -     SEPARATOR   FUNNEL/9511   1000   1.0   2    L CS   LCS   -     SEPARATOR   FUNNEL/9511   1000   1.0   2    L CS   LCS   -     SEPARATOR   FUNNEL/9511   1000   1.0   L C   LCS   LCS   -     SEPARATOR   FUNNEL/9511   1000   1.0   L C   LCS   LCS   LCS   LCS   -     SEPARATOR   FUNNEL/9511   1000   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS   LCS	ď	LIENT	CLIENT II	)	GCAL ID	VQL/WT	.  /	/OLUME					COMMENTS	METHOD
2	1		[EXTO/27520]	924	912529	1006		1-0	汁	42	MB		-	
SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUMEWEIGHT, SOLVENT EXTRACTION AND EVAPO OF SOLVENT TO FINAL VOLUME BALANCE ID:	2	QC ACCOUNT	448924 [EXTO/27520		912530	1000		1.0	<b>∑</b> I	K-2	LCS		-	:
SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONICATOR   SONI	3	QC ACCOUNT	448924 [EXTO/2	2752	912531	1000		1-0	デ	L2	LCSD	)	-	SEPARATORY FUNNEL/3510
SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOXHLET/38   SOX	Ь	4482			2110114051	1990		1-0	デ	L 2	EQB	(	625_SPK	
SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXHET/38   SOXH	5													SONICATOR/3550
8							╬							SOXHLET/3540
10	8													
11														GPC CLEANUP/3640
13	-						十							
14	12													DILUTION/3580
16	_										•			EXTRACTION
17							-							EXTRACTION
19	17						1							MECL2/Acetone
21	19						#							ACETONE LOT NO:
22	21			-			╁							MeCL2 Lot No:
24 25 26 26 27 28 270 SPIKE ID 625 SPIKE ID 43546 TECHNICIAN DATE  SURROGATE ID SO 1-2-2 8270 SPIKE ID 625 SPIKE ID 43546 TECHNICIAN DATE  VOLUME CONCENTRATION 1/00 CANA CONCENTRATION CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION 1/00 CANA CONCENTRATION	22				•									
25 26 27 28 28 28 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	23 24						-				·		***************************************	Sodium Sulfate Lot No: 10343-1
27 28  COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION TO FINAL VOLUME BALANCE ID:  SURROGATE ID  SO 1-2-2  8270 SPIKE ID  625 SPIKE ID  VOLUME  VOLUME  VOLUME  CONCENTRATION  NaOH  561-7-4  ACID  39-3-4  SUPERVISOR  DATE	25													
COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION TO FINAL VOLUME  BALANCE ID: TEMP: 101  SURROGATE ID 50-1-2-2 8270 SPIKE ID 625 SPIKE ID 485-46-4 TECHNICIAN DATE  VOLUME VOLUME VOLUME VOLUME VOLUME 1-14-11  CONCENTRATION 1/100 CAMA CONCENTRATION CONCENTRATION 1000 CAMA SUPERVISOR DATE	26						_							
COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION TO FINAL VOLUME  BALANCE ID: 10 625 SPIKE ID 48546. TECHNICIAN DATE  VOLUME VOLUME VOLUME VOLUME VOLUME 1.04 1.14-11  CONCENTRATION 100 CAME CONCENTRATION CONCENTRATION 100 CAME SUPERVISOR DATE				_			+							
SURROGATE ID SO 1-2-2 8270 SPIKE ID 625 SPIKE ID 48541, TECHNICIAN DATE  VOLUME VOLUME VOLUME VOLUME CONCENTRATION OF AND CONCENTRATION OF AND CONCENTRATION SUPERVISOR DATE	28					1								
VOLUME VOLUME VOLUME VOLUME 1.1.14.11  CONCENTRATION 100 WANT CONCENTRATION CONCENTRATION 100 WANT SUPERVISOR DATE		OLVENT TO	FINAL VOLUM		n include det	ERMINATIO	N OF	SAMPLE VO			GHT, SC	LVE		NAND EVAPORATION
VOLUME VOLUME VOLUME 1.1 1.14 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	SU	RROGATE II	507-2-2	827	0 SPIKE ID		Tổ	25 SPIKE ID		4854	11,2	TEC	HNICIAN	DATE
CONCENTRATION TO WAR CONCENTRATION CONCENTRATION 100 WAR SUPERVISOR DATE				VOL	UME								MA	
NaOH SOL-Y-4 ACID 36-3-4 SUPERVISOR DATE			ON50/100 CAM				Ċ	ONCENTRA	TION		low			
			502-7-4	AC	ID g	6-3-4						SUF	PERVISOR	DATE
SPIKE WITNESS 1-1Y-1												J.	A	1-14-11

Revision 3, 10/04/2010

#### LABORATORY CHRONICLE: MSSV DEPARTMENT

Date: 12-JAN-2011

Standard

Conc Lot No.

Instrument: MSSV4.i

DFTPP

ppm 50

Int. Standard

4000

Inst.	Conditions:_		 	
÷		 		
MISC:			 	

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
	1	1	· i	1	1	1	1	l
1100	42-9-11	e7895c.d	0.00 n	al   12-JAN-2011 07:43	:	L.000   KCB	1	all
1100	42-9-11	e7895.d	0.00 n	al   12-JAN-2011 07:43		1.000   KCB	1	all
1100	42-9-11	e7895d.d	1000.00 m	1   12-JAN-2011 07:43	1 :	1.000   KCB	1	all
1400	42-7-1	e7896.d	1000.00 m	al   12-JAN-2011 08:00	1 :	1.000   KCB	1 2	8270c
1205	42-7-1	e7897.d	1000.00 m	al   12-JAN-2011 08:21	1 :	1.000   KCB	2	8270c
1205	42-7-1	e7897d.d	1000.00 m	1   12-JAN-2011 08:21	1	L.000   KCB	2	8270c
1204	42-7-2	e7898.d	1000.00 m	1   12-JAN-2011 08:38	1 :	1.000   KCB	1 3	8270c
1204	42-7-2	e7898d.d	1000.00 m	al   12-JAN-2011 08:38	1 :	L.000   KCB	1 3	8270c
1206	42-7-3	e7899.d	1000.00 m	1   12-JAN-2011 08:54	1 :	1.000   KCB	1 4	8270c
1206	1 42-7-3	e7899d.d	1000.00 m	1   12-JAN-2011 08:54	1 :	L.000   KCB	4	8270c
1207	42-7-4	e7900.d	1000.00 m	1   12-JAN-2011 09:11	1	L.000   KCB	5	8270c
1207	1 42-7-4	e7900d.d	1000.00 n	al   12-JAN-2011 09:11	1 :	L.000   KCB	5	8270c
1208	1 42-7-5	e7901.d	1000.00 m	al   12-JAN-2011 09:28	1 :	L.000   KCB	1 6	8270c
1208	1 42-7-5	e7901d.d	1000.00 m	11   12-JAN-2011 09:28	1 :	L.000   KCB	1 6	8270c
1209	1 42-7-6	e7902.d	1000.00 m	1   12-JAN-2011 09:45	1 :	L.000   KCB	7	8270c
1209	1 42-7-6	e7902d.d	1000.00 m	1   12-JAN-2011 09:45	1 :	L.000   KCB	1 7	8270c
1203	42-7-7	e7903.d	1 1000.00 m	1   12-JAN-2011 10:02	1 :	L.000   KCB	1 8	8270c
1203	1 42-7-7	e7903d.d	1 1000.00 m	1   12-JAN-2011 10:02	1 :	L.000   KCB	1 8	8270c
1202	42-7-8	e7904.d	1 1000.00 m	1   12-JAN-2011 10:19	1	L.000   KCB	1 9	8270c
1201	42-7-9	e7905.d		11   12-JAN-2011 10:37	1 :	L.000   KCB	1 10	8270c
1600	42-7-10	e7906.d		1   12-JAN-2011 10:54		L.000   KCB		SA8270
1600	42-7-10	e7907.d	•	1   12-JAN-2011 11:49		L.000   KCB		SA8270
1600	1 42-7-10	l e7907d.d		1   12-JAN-2011 11:49		L.000   KCB	•	SA8270
911074	BLK	e7908.d	30.10		·	L.000   KCB	•	176115
911075	LCS	l e7909.d	30.00 c			L.000   KCB		176115
911076	LCSD	e7910.d	30.00 g			L.000   KCB		176115
21101080701	1 4744	e7910.d	30.00 g	•		0.000   KCB	•	176115
21101080701	1 4744	e7911.d	30.00 g		•	2.000   KCB		176115
911077	MS	e7913.d	30.20		•	2.000   KCB		176115
911077	MSD	e7913.d	30.10 g			2.000   KCB		176115
21101080702	1 4744	e7915.d	30.20 g			L.000   KCB		176115
21101080703	4744	e7916.d	30.10 g			1.000   KCB		176115
21101080703	4744	e7917.d	30.20 g			L.000   KCB		176115
21101080704	4744	e7917.d	30.30 g			1.000   KCB		176115
911077	MS	e7910.d	30.20 g			2.000   KCB		176115
911077	I MS	e7919.d	30.20 g			2.000   KCB		176115
J = 0 / /	, 110	, 0,520.0	, 30.20 9	, 12 0/11, 2011 10:04	' '	, 1.00	, 55	

#### LABORATORY CHRONICLE: MSSV DEPARTMENT

Date: 14-JAN-2011

Standard

Conc

Lot No.

Instrument: MSSV4.i

DFTPP

ppm 50

Int. Standard

4000

Inst.	Conditions:_		
		 ·	
MISC:			

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments	
	 =========		 ====================================		=======================================		 ======	 ========	.======
1100	42-9-11	e7970c.d	0.00 ml	14-JAN-2011 14:09	1.000	KCB	1	all	
1100	42-9-11	e7970.d	0.00 ml	14-JAN-2011 14:09	1.000	KCB	1	all	
1100	42-9-11	e7970d.d	0.00 ml	14-JAN-2011 14:09	1.000	KCB	1	all	
1400	42-7-1	e7971.d	1000.00 ml	14-JAN-2011 14:26	1.000	KCB	2	SA8270	
1400	42-7-1	e7972.d	1000.00 ml	14-JAN-2011 14:42	1.000	KCB	2	8270c	
1400	42-7-1	e7972d.d	1000.00 ml	14-JAN-2011 14:42	1.000	KCB	2	8270c	
912529	BLK	e7973.d	1000.00 ml	14-JAN-2011 14:59	1.000	KCB	3	SA8270	
912530	LCS	e7974.d	1000.00 ml	14-JAN-2011 15:16	1.000	KCB	4	8270qc	
912531	LCSD	e7975.d	1000.00 ml	14-JAN-2011 15:33	1.000	KCB	5	8270qc	
21101140514	4482	e7976.d	990.00 ml	14-JAN-2011 15:49	1.000	KCB	6	SA8270	
912490	BLK	e7977.d	30.10 g	14-JAN-2011 16:06	1.000	KCB	7	SA8270	
912491	LCS	e7978.d	30.20 g	14-JAN-2011 16:23	1.000	KCB	8	8270qc	
912492	LCSD	e7979.d	30.30 g	14-JAN-2011 16:39	1.000	KCB	9	8270qc	
21101140501	4482	e7980.d	30.10 g	14-JAN-2011 16:56	1.000	KCB	10	SA8270	
21101140502	MS	e7981.d	30.00 g	14-JAN-2011 17:13	1.000	KCB	11	8270qc	
21101140503	MSD	e7982.d	30.00 g	14-JAN-2011 17:29	1.000	KCB	12	8270qc	
21101140504	4482	e7983.d	30.00 g	14-JAN-2011 17:46	1.000	KCB	13	SA8270	
21101140505	4482	e7984.d	30.20 g	14-JAN-2011 18:03	1.000	KCB	14	SA8270	
21101140506	4482	e7985.d	30.00 g	14-JAN-2011 18:19	1.000	KCB	15	SA8270	
21101140507	4482	e7986.d	30.10 g	14-JAN-2011 18:36	1.000	KCB	16	SA8270	
21101140508	4482	e7987.d	30.00 g	14-JAN-2011 18:53	1.000	KCB	17	SA8270	
21101140509	4482	e7988.d	30.40 g	14-JAN-2011 19:09	1.000	KCB	18	SA8270	
21101140510	4482	e7989.d	30.20 g	14-JAN-2011 19:26	1.000	KCB	19	SA8270	
21101140511	4482	e7990.d	30.10 g	14-JAN-2011 19:43	1.000	KCB	20	SA8270	
21101140512	4482	e7991.d	30.00 g	14-JAN-2011 20:00	1.000	KCB	21	SA8270	
21101140513	4482	e7992.d	30.20 g	14-JAN-2011 20:16	1.000	KCB	22	SA8270	
912532	BLK	e7993.d	30.10 g	14-JAN-2011 20:33	1.000	KCB	24	176115	
912533	LCS	e7994.d	30.00 g	14-JAN-2011 20:50	1.000	KCB	25	176115	
912534	LCSD	e7995.d	30.20 g	14-JAN-2011 21:06	1.000	KCB	26	176115	
21101140612	4744	e7996.d	30.10 g	14-JAN-2011 21:23	1.000	KCB	27	176115	
912733	MS	e7997.d	30.00 g	14-JAN-2011 21:40	1.000	KCB	28	176115	
912734	MSD	e7998.d	30.00 g	14-JAN-2011 21:57	1.000	KCB	29	176115	
21101140613	4744	e7999.d	30.30 g	14-JAN-2011 22:14	1.000	KCB	30	176115	
21101140614	4744	e8000.d	30.20 g	14-JAN-2011 22:30	1.000	KCB	31	176115	
21101140801	4692	e8001.d	30.10 g	14-JAN-2011 22:47	5.000	KCB	23	pah++lcs	
SOL BLK	SOL BLK	e8002.d	1000.00 ml	14-JAN-2011 23:57	1 1.000	KCB	100	SA8270	

#### LABORATORY CHRONICLE: MSSV DEPARTMENT

Date: 17-JAN-2011

Standard

Conc Lot No.

Instrument: MSSV4.i

DFTPP

ppm 50

Int. Standard

4000

Inst.	Conditions:_	
MISC:		

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS   Comments	
l	1	ł	1	I	1	1	l l	
1100	42-9-11	e8006.d	0.00 r	======================================	1.000	KCB		
1100	42-9-11	e8007c.d	0.00 r	nl   17-JAN-2011 08:22	1.000	KCB	1   all	
1100	42-9-11	e8007.d	0.00 r	nl   17-JAN-2011 08:22	1.000	KCB	1   all	
1400	1 42-7-1	e8008.d	1000.00 r	nl   17-JAN-2011 08:38	1.000	KCB	2   8270c	
21101140504	4482	e8009.d	1 30.00	g   17-JAN-2011 08:56	10.000	KCB	3   SA8270	
SOL BLK	SOL BLK	e8010.d	1000.00 r	nl   17-JAN-2011 09:13	1.000	KCB	100   SA8270	
1400	1 42-2-2	e8011.d	1000.00 r	nl   17-JAN-2011 14:03	1.000	KCB	4   APP9	
913174	BLK	e8012.d	30.00	g   17-JAN-2011 14:20	1 1.000	KCB	5   SA8270	
913175	LCS	e8013.d	30.00	g   17-JAN-2011 14:37	1.000	KCB	6   lcs	
913173	LCSD	e8014.d	30.00	g   17-JAN-2011 14:53	1.000	KCB	7   lcs	
21101143101	4260	e8015.d	17.10	g   17-JAN-2011 15:10	1 5.000	KCB	8   SA8270	
21101143102	4260	e8016.d	30.00	g   17-JAN-2011 15:26	1 5.000	KCB	9   SA8270	
913174	BLK	e8017.d	30.00	g   17-JAN-2011 15:53	1.000	KCB	5   SA8270	
913175	LCS	e8018.d	30.00	g   17-JAN-2011 16:29	1.000	KCB	6   SA8270	<u>:</u>
913173	LCSD	e8019.d	.   30.00 @	g   17-JAN-2011 16:45	1.000	KCB	7   lcs	
913175	LCS	e8020.d	30.00	g   17-JAN-2011 17:02	1.000	KCB	6   lcs	
913173	LCSD	e8021.d	30.00	g   17-JAN-2011 17:19	1.000	KCB	7   lcs	
913175	LCS	e8022.d	30.00	g   17-JAN-2011 17:35	1.000	KCB	6   lcs	
SOL BLK	SOL BLK	e8023.d	1000.00 r	nl   17-JAN-2011 17:52	1.000	KCB	100   SA8270	
SOL BLK	SOL BLK	e8024.d	1000.00 m	nl   17-JAN-2011 18:08	1.000	KCB	100   SA8270	
SOL BLK	SOL BLK	e8025.d	1000.00 r	nl   17-JAN-2011 18:24	1.000	KCB	100   SA8270	

# GULF COAST ANALYTICAL LABORATORIES, INC

### CHAIN OF CUSTODY RECORD

UCAL III	Lab use only			
GULF COAST ANALYTICAL LABORATORIES, INC 7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402	low	4482	211011405	1-18-11
Phone 225.769.4900 • Fax 225.767.5717	Client Name	Client #	Workorder #	Due Date

Report to:	Bill to	p:		P	Analytical Requ	ests & Method	Lab use only:	
Client: Paster, Belling + Wheeler Address: 201 Dauble Creek D.	Client:						Custody Seal	
Address: 2201 Dauble Creek D.	Address: 5 and						used <b>p</b> ryes □ no	
Ste 4004							intact ☐ yes ☐ no	1
Contact: Eric Pastor	Contact:						Temperature °C 37 4	9 4.2
Phone: 512-671-3434	Phone:							
Fax: 5/2.67)-3446	Fax:							
P.O. Number Project Name/Number								
1597 B Gulfeo ASTA	anoval							
Sampled By: Jennings								
1. 26NM N32		·	· · · · · · · · · · · · · · · · · · ·	79				Lab ID
Matrix ¹ Date Time (2400) o o o o o o o o o o o o o o o o o o	1	Preservatives	No Con- tainers	SVO			Remarks:	/
5 /B/n/1400 X T-15-F		Now	15	XX			Triplevol. Forms/M	D123
5 1/13/11/45 X T-21-F 5 1/13/11/455 X NC-0-63		ma	5	XX				4
5 1/13/11/155 X NC-0-03		Na	5	XX				5
S /13/11/505 X T-2-Wes 5 /18/11/535 X T-6-Floor	1	Non	5	XX				6
5 /18/n 1535 X T-6-Floor		New	5	XX				7
5 1/13/1 1555 X T-6-East		None	5	XX				8
	1	Non	5	XX				9
5 1/13/11/625 X T-6-South 5 1/13/11/625 X T-6-Nort		Mi	5	XX				<i>i</i> v
S 1/B/n - X Blind Dug		None	5	XX				<b>6</b> \
S 1/13/11/645 X SC-W		Nav	5	XX				Ľ
5 VISIN 1655 X SC-E		Now	5	XX				ı
W Visla 1710 X Equip Bl.	n/C	Ach	\$5	XX				14
W /13/17/715 Tr:pBlunk		Ha	3	X				45
W 1/13/11/720 Trip Blue		HCL	3	X				n
	days 1 week	Standa	ard	Other_				
Relinquished by: (Signature) Received by	(Signature) Da	ate: T	ime:	Note:				
Relinquished by: (Signature) Received by			1800 ime:					,
s call			1111 <del>6</del> . 915					Ş
			ime:	By submitti	ing these sample	es, you agree to the te most recent schedule	rms and	90

#### PRESERVATION CHECKLIST / COOLER RECEIPT

#### Gulf Coast Analytical Laboratories, Inc.

WO: 211011405

Type: D

Desc:

Report: REVIEW_RPT

Work ID: GULFCO

Status: WP

Project Seq: 113065

Created: 1/14/2011 8:59

Client: 4482 - Pastor, Behling, & Wheeler

QA:

Profile: 201917 - GULFCO-III - GULFCO

**PO**: 1352

#### **WORKORDER SAMPLES**

			pH PF	pH PRESERVATIVE		VOA HEADSPACE			
Container ID	Туре	Preservative	Α	U	N\A	Α	U	N∖A	CONTAINER CONDITION
21101140501-1	ОС	NONE	, man		X	***************************************		Χ	OK
21101140501-2	ОС	NONE			X			X	ОК
21101140501-3	ОС	NONE ,			X			Х	ОК
21101140501-4	ОС	NONE			X			Х	ОК
21101140501-5	8	NONE			Χ			X	ОК
Container ID	Туре	Preservative	Α	U	N\A	Α	U	N∖A	CONTAINER CONDITION
21101140502-1	ОС	NONE	,		X			X	OK
21101140502-2	ОС	NONE			X			X	OK
21101140502-3	ОС	NONE			X			Х	OK
21101140502-4	ОС	NONE			Χ			X	OK
21101140502-5	8	NONE			X			X	ОК
Container ID	Туре	Preservative	Α	U	N\A	Α	U	N∖A	CONTAINER CONDITION
21101140503-1	ОС	NONE	Planeman de del de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya del la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l		X			X	OK
21101140503-2	ОС	NONE			X			Х	ОК
21101140503-3	ОС	NONE			Χ			Х	ОК
21101140503-4	ОС	NONE			X			X	ОК
21101140503-5	8	NONE			×			Χ	ОК
Container ID	Type	Preservative	Α	U	N\A	Α	U	N\A	CONTAINER CONDITION
21101140504-1	ОС	NONE	-		X			Χ	OK
21101140504-2	OC	NONE			Х			X	ОК
21101140504-3	ОС	NONE			Χ			Х	ОК
21101140504-4	ОС	NONE			X			X	OK
21101140504-5	8	NONE			X			Х	OK

			pH PRE	ESERVA	ATIVE	VOA H	EADSI	PACE
Container ID	Туре	Preservative	Α	U	N\A	Α	U	N\A CONTAINER CONDITION
21101140505-1	ОС	NONE			X			х ОК
21101140505-2	ОС	NONE			X			х ОК
21101140505-3	OC	NONE			X			х ок
21101140505-4	OC	NONE			X			х ок
21101140505-5	8	NONE			Χ			Х ОК
Container ID	Туре	Preservative	Α	U	N\A	Α	Ų	N\A CONTAINER CONDITION
21101140506-1	OC	NONE			X			х ок
21101140506-2	OC	NONE			X			х ОК
21101140506-3	OC	NONE			X			х ОК
21101140506-4	ОС	NONE			X			х ок
21101140506-5	8	NONE			X			х ок
Container ID	Туре	Preservative	Α	U	N\A	Α	U	N\A CONTAINER CONDITION
21101140507-1	ОС	NONE			X			х ок
21101140507-2	ОС	NONE			X			х ОК
21101140507-3	OC	NONE			X			х ок
21101140507-4	OC	NONE			X			х ок
21101140507-5	8	NONE			X			х ок
Container ID	Туре	Preservative	Α .	U	N\A	Α	U	N\A CONTAINER CONDITION
21101140508-1	ОС	NONE			X			х ок
21101140508-2	OC	NONE			X			х ок
21101140508-3	OC	NONE			X			Х ОК
21101140508-4	OC	NONE			X			х ОК
21101140508-5	8	NONE			X			х ОК
Container ID	Туре	Preservative	Α	U	N\A	Α	U	N\A CONTAINER CONDITION
21101140509-1	ОС	NONE			X			х ок
21101140509-2	OC	NONE			X			х ок
21101140509-3	ОС	NONE			X			х ок
21101140509-4	OC	NONE			X			х ОК
21101140509-5	8	NONE			X			х ок
Container ID	Туре	Preservative	Α	U	N\A	Α	U	N/A CONTAINER CONDITION
21101140510-1	ОС	NONE			X			х ок
21101140510-2	ОС	NONE			X			х ок
21101140510-3	ОС	NONE			X			х ок
21101140510-4	ОС	NONE			Χ			х ок
21101140510-5	8	NONE			X			х ок

Friday, January 14, 2011 SMDW0002N Page 2 of 4

			pH PRESERVATIVE			VOA H	HEADS	PACE	
Container ID	Туре	Preservative	Α	U	N\A	Α	U	N\A	CONTAINER CONDITION
21101140511-1	ОС	NONE			Χ			X	ОК
21101140511-2	ОС	NONE			Χ			Х	ОК
21101140511-3	ОС	NONE		-	X			X	ОК
21101140511-4	OC	NONE			Χ			X	ОК
21101140511-5	8	NONE			X			X	ОК
Container ID	Туре	Preservative	Α	U	N∖A	Α	U	N∖A	CONTAINER CONDITION
21101140512-1	ОС	NONE			Χ			Х	ОК
21101140512-2	ОС	NONE			X			X	ОК
21101140512-3	ОС	NONE			Χ			X	ОК
21101140512-4	ОС	NONE			Χ			X	ОК
21101140512-5	8	NONE			X			Χ	ок
Container ID	Туре	Preservative	Α	U	N\A	Α	U	N∖A	CONTAINER CONDITION
21101140513-1	ОС	NONE			X			X	ОК
21101140513-2	ОС	NONE			X			X	ОК
21101140513-3	OC	NONE			Χ			X	ОК
21101140513-4	OC	NONE			Χ			X	ОК
21101140513-5	8	NONE			X			X	ОК
Container ID	Туре	Preservative	Α	U	N\A	Α	U	N∖A	CONTAINER CONDITION
21101140514-1	LA	NONĖ			Χ			X	ОК
21101140514-2	LA	NONE			Χ			X	ОК
21101140514-3	40	HCL			1	3			ОК
21101140514-4	40	HCL			7	2			ОК
21101140514-5	40	HCL			V				ОК
Container ID	Туре	Preservative	Α	U	N\A	Α	U	N\A	CONTAINER CONDITION
21101140515-1	40	HCL			1	1			ОК
21101140515-2	40	HCL			7	125			ОК
21101140515-3	40	HCL							ОК
Container ID	Туре	Preservative	Α	U	N\A	Α	U	N∖A	CONTAINER CONDITION
21101140516-1	40	HCL			7	7			OK
21101140516-2	40	HCL	***		7	9			ОК
21101140516-3	40	HCL			V				ОК

pH PRESERVATIVE VOA HEADSPACE

A = ACCEPTABLE U = UNACCEPTABLE

COOLER (S) TEMPERATURE

N/A = NOT APPLICABLE MAXIMUM VOLATILE HEADSPACE BUBBLE 6MM

LIMIT = 4C + \ - 2C

**Custody Seal** 

used [] Yes [ ] No

in tact [ ] Yes [ ] No

LABEL(S) VERIFIED_

____ CUSTODIAN ~

# **ANALYTICAL RESULTS**

**PERFORMED BY** 

**GULF COAST ANALYTICAL LABORATORIES, INC.** 

7979 GSRI Avenue Baton Rouge, LA 70820

**Report Date** 01/20/2011

**GCAL Report** 211011920



**Deliver To** Pastor, Behling, Wheeler 2201 Double Creek Drive Round Rock, TX 78664 512-671-3434

Attn Eric Pastor

Project GULFCO

#### CASE NARRATIVE

Client: Pastor, Behling, Wheeler Report: 211011920

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

No anomalies were found for the analyzed sample(s).

### **Laboratory Endorsement**

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

#### **Common Abbreviations Utilized in this Report**

ND Indicates the result was Not Detected at the specified RDL DO Indicates the result was Diluted Out MΙ Indicates the result was subject to Matrix Interference Indicates the result was Too Numerous To Count TNTC **SUBC** Indicates the analysis was Sub-Contracted FLD Indicates the analysis was performed in the Field PQL **Practical Quantitation Limit** MDL Method Detection Limit RDL Reporting Detection Limit 00:00 Reported as a time equivalent to 12:00 AM

### Reporting Flags Utilized in this Report

- J Indicates an estimated value
- U Indicates the compound was analyzed for but not detected
- B (ORGANICS) Indicates the analyte was detected in the associated Method Blank
- **B** (INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues	
Technical Director	
<b>GCAL REPORT</b> 211011920	
THIS REPORT CONTAINS	PAGES.

# Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21101192001	N. CONTAINMENT-2	Water	01/18/2011 13:35	01/19/2011 10:30
21101192002	TRIP BLANK	Water	01/18/2011 13:45	01/19/2011 10:30

# Summary of Compounds Detected

There were no detects	

**GCAL Report** 211011920

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21101192001	N. CONTAINMENT-2	Water	01/18/2011 13:35	01/19/2011 10:30

### SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution 1	<b>Analyzed</b> 01/19/2011 12:27	<b>By Anal</b> RJU 4492	ytical Batch 16
CAS#	Parameter		Result	RDL	MD	L Units
107-06-2	1,2-Dichloroethane		5U	5	0.0	86 ug/L
71-43-2	Benzene		5U	5	0.0	54 ug/L
67-66-3	Chloroform		5U	5	0.0	57 ug/L
127-18-4	Tetrachloroethene		5U	5	0.1	21 ug/L
79-01-6	Trichloroethene		5U	5	0.0	62 ug/L
75-01-4	Vinyl chloride		5U	5	0.0	93 ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.4	ug/L	93	78 - 130
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	48.9	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.5	ug/L	95	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21101192002	TRIP BLANK	Water	01/18/2011 13:45	01/19/2011 10:30

### SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution 1	<b>Analyzed</b> 01/19/2011 11:19	By Analy	tical Batch
CAS#	Parameter		Result	RDL	MDL	. Units
107-06-2	1,2-Dichloroethane		5U	5	0.08	6 ug/L
71-43-2	Benzene		5U	5	0.05	4 ug/L
67-66-3	Chloroform		5U	5	0.05	7 ug/L
127-18-4	Tetrachloroethene		5U	5	0.12	1 ug/L
79-01-6	Trichloroethene		5U	5	0.06	2 ug/L
75-01-4	Vinyl chloride		5U	5	0.09	3 ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.9	ug/L	94	78 - 130
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	49.3	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.6	ug/L	97	71 - 127

# GC/MS Volatiles Quality Control Summary

<b>Analytical Bat</b>	ch 449216	Client ID	MB449216 L		LCS449216			LCSD449216				
Prep Bat	ch N/A	GCAL ID	913959			913960			913961			
		Sample Type	Method Blank			LCS			LCSD			
		<b>Analytical Date</b>	01/19/2011 10:45			01/19/2011 07:36			01/19/2011 08:16			
		Matrix	Water			Water			Water			
	SW-846 826	:np	Units	ug/L	Spike	Decult		Control	Decult			RPD
	3VV-040 020	OUD	Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
67-66-3	Chloroform		5U	5	50.0	46.9	94	75 - 122	44.1	88	6	30
107-06-2	1,2-Dichloroeth	ane	5U	5	50.0	44.4	89	71 - 129	42.7	85	4	30
127-18-4	Tetrachloroethe	ene	5U	5	50.0	45.0	90	68 - 128	43.8	88	3	30
75-01-4	Vinyl chloride		5U	5	50.0	45.6	91	68 - 132	42.9	86	6	30
75-35-4	1,1-Dichloroeth	ene	5U	5	50.0	46.5	93	69 - 129	44.2	88	5	20
71-43-2	Benzene		5U	5	50.0	45.5	91	70 - 129	44.1	88	3	20
79-01-6	Trichloroethene	)	5U	5	50.0	44.8	90	76 - 129	43.2	86	4	20
108-88-3	Toluene		5U	5	50.0	46.4	93	72 - 120	45.2	90	3	20
108-90-7	Chlorobenzene		5U	5	50.0	46.1	92	74 - 123	44.9	90	3	20
Surrogate												
460-00-4	4-Bromofluorob	enzene	46.3	93	50	49.8	100	78 - 130	49.2	98		
1868-53-7	Dibromofluoron	nethane	49.5	99	50	50.6	101	77 - 127	50.3	101		
2037-26-5	Toluene d8		49	98	50	47.3	95	76 - 134	47.8	96		
17060-07-0	1,2-Dichloroeth	ane-d4	48	96	50	48.5	97	71 - 127	48.7	97		

<b>Analytical Batcl</b>	1 449216	Client ID	B169-ZONE 4-0112	ZONE 4-011211-WC					912500MSD			
Prep Batcl	n N/A	GCAL ID	21101140606			913981			913982			
	Sample Type   SAMPLE					MS			MSD			
		Analytical Date	01/19/2011 11:42			01/19/2011 13:14			01/19/2011 13:36			
		Matrix	Solid			Solid			Solid			
C	SW-846 8260B		Units	ug/L	Spike	Popult		Control	Result			RPD
			Result	RDL	Added	Result % R		Limits % R	Result	% R	RPD	Limit
67-66-3	Chloroform		0.00	200	2000	2080	104	74 - 124	1960	98	6	30
107-06-2	1,2-Dichloroeth	ane	0.00	200	2000	1890	95	68 - 126	1900	95	0.5	30
127-18-4	Tetrachloroethe	ene	0.00	200	2000	1930	97	70 - 127	1900	95	2	30
75-01-4	Vinyl chloride		0.00	200	2000	1900	95	67 - 131	1830	92	4	30
75-35-4	1,1-Dichloroeth	ene	0.00	200	2000	1980	99	68 - 129	1980	99	0	22
71-43-2	Benzene		0.00	200	2000	2010	101	73 - 128	1990	100	1	21
79-01-6	Trichloroethene	)	0.00	200	2000	1920	96	78 - 127	1850	93	4	24
108-90-7	Chlorobenzene	:	0.00	200	2000	2020	101	75 - 121	2000	100	1	21
Surrogate												
460-00-4	4-Bromofluorob	enzene			2000	1980	99	62 - 127	1980	99		

# GC/MS Volatiles Quality Control Summary

Analytical Batch 4492	216 <b>Cli</b>	ent ID	B169-ZONE 4-0112	211-WC		912500MS			912500MSD			
Prep Batch N/A	GC	AL ID	21101140606			913981			913982			
	Sample	Туре	•			MS			MSD			
Analytical Date 01/19/2011 11:42			01/19/2011 13:14			01/19/2011 13:36						
	N	latrix	Solid			Solid			Solid			
S/W 8	346 8260B		Units	ug/L	Spike	Result		Control	Result			RPD
344-0	940 0200D		Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
1868-53-7 Dibro	mofluoromethane				2000	2010	101	65 - 130	1990	100		
2037-26-5 Toluene d8				2000	1890	95	71 - 132	1910	96			
17060-07-0 1,2-D	Dichloroethane-d4				2000	1900	95	62 - 125	1890	95		

# GCAL **■**

# CHAIN OF CUSTODY RECORD

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Matrix ¹	Date	Time (2400)	C o m p	G r a b	Sample Description			Preservative	No Con- tainers	Benzen	Chlor	7.1	Ÿ	19	<del>(</del> <del>)</del> 				Remarks:		/
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## SAMPLE RECEIVING CHECKLIST

Workorder: 211011920	Client: Past	or, Behling, 8	& Wheeler				
Received by: Raborn, Michelle	Received Da	Received Date/Time: 1/19/2011 10:30:00 AM					
Samples Received via: <u>FEDEX</u>	Number of C	oolers Receive	ed:				
Cooler tracking numbers(s): 8722 9413 7560							
Cooler temperature(s):							
Were all coolers received at a temperature of 0 - 6° C?	Wes	No No	√ N/A				
Were all custody seals intact?	Yes	☐ No	N/A	*:			
Were all samples recevied in proper containers?	Yes	No	√ N/A				
Were all samples properly preserved?	Yes	□No	N/A				
Was preservative added to any container at the lab?	Yes	No	N/A				
Were all containers received in good condition?	√Yes	□ No	□ N/A				
Were all VOA vials received with no head space?	Yes	□No	√ N/A				
Do all sample labels match the Chain of Custody?	Ves	No	□-N/A				
Was the client notified about any discrepancies?	Yes	☐ No	™ N/A				
Notes/Comments:							
•							

# **ANALYTICAL RESULTS**

**PERFORMED BY** 

**GULF COAST ANALYTICAL LABORATORIES, INC.** 

7979 GSRI Avenue Baton Rouge, LA 70820

**Report Date** 12/20/2010

**GCAL Report** 210121016



**Deliver To** Columbia Environmental Services, Inc. 13222 Reeveston Road Houston, TX 77039 713-400-5651

**Attn** Tony Maag

Project Gulfco Freeport, TX

#### CASE NARRATIVE

Client: Columbia Environmental Services, Inc. Report: 210121016

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

#### **VOLATILES MASS SPECTROMETRY**

In the SW-846 1311/8260B analysis, a dilution factor of 40 was performed for sample 21012101601 (SOILS IN BERM AREA). The reporting limits are at or below the regulatory limits at this dilution.

In the SW-846 1311/8260B analysis for analytical batch 447304, the MS/MSD exhibited recovery failures. All LCS/LCSD recoveries are acceptable.

#### SEMI-VOLATILES GAS CHROMATOGRAPHY

In the TX1005 analysis for prep batch 447363, the MS/MSD recoveries and RPD are not applicable due to the high concentration of TPH in the spiked sample. The LCS/LCSD recoveries are acceptable.

#### **METALS**

In the SW-846 1311/6010B analysis, sample 21012101601 (SOILS IN BERM AREA) was analyzed at a dilution. The reporting limits are at or below the regulatory limits at this dilution.

In the SW-846 1311/6010B analysis for prep batch 447424, the Sample/Duplicate RPD for Cadmium, Chromium, Lead, Selenium and Silver is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

### **Laboratory Endorsement**

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

#### **Common Abbreviations Utilized in this Report**

ND Indicates the result was Not Detected at the specified RDL DO Indicates the result was Diluted Out MΙ Indicates the result was subject to Matrix Interference Indicates the result was Too Numerous To Count TNTC **SUBC** Indicates the analysis was Sub-Contracted FLD Indicates the analysis was performed in the Field PQL **Practical Quantitation Limit** MDL Method Detection Limit RDL Reporting Detection Limit

00:00 Reported as a time equivalent to 12:00 AM

#### Reporting Flags Utilized in this Report

- J Indicates an estimated value
- **U** Indicates the compound was analyzed for but not detected
- B (ORGANICS) Indicates the analyte was detected in the associated Method Blank
- **B** (INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues	
Technical Director	
<b>GCAL REPORT</b> 210121016	
THIS REPORT CONTAINS	PAGES.

# Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21012101601	SOILS IN BERM AREA	Solid	12/08/2010 15:00	12/10/2010 08:40
21012101602	PCB TRANSFORMER WASH WATER	Water	12/08/2010 15:00	12/10/2010 08:40

# Summary of Compounds Detected

GCAL ID 21012101601	Client ID SOILS IN BERM AREA	<b>Matrix</b> Solid	Collect Date/Time 12/08/2010 15:00		eceive Date/Time 2/10/2010 08:40	
SW-846 601	0B TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
7440-39-3	Barium		1.10B	5.00	0.00055	mg/L
7440-43-9	Cadmium		0.0028B	0.050	0.00055	mg/L
7440-02-0	Nickel		0.0076B	0.20	0.0048	mg/L
TX1005 Hyd	rocarbons by Range					
CAS#	Parameter		Result	RDL	MDL	Units
GCSV-05-02	>C12-C28		384000	50000	4350	ug/Kg
GCSV-05-03	>C28-C35		416000	50000	4350	ug/Kg
GCSV-05-01	C6-C12		24600J	50000	4450	ug/Kg
GCSV-05-04	Total TPH (C6-C35)		825000	50000	4350	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21012101601	SOILS IN BERM AREA	Solid	12/08/2010 15:00	12/10/2010 08:40

### SW-846 8260B TCLP

Prep Date	Prep Batch	Prep Method	<b>Dilution</b> 40	Analyzed 12/12/2010 16:31	By Analyt BKR 447304	ical Batch 4
CAS#	Parameter		Result	RDL	MDL	Units
75-35-4	1,1-Dichloroethene		0.200U	0.200	0.00656	6 mg/L
107-06-2	1,2-Dichloroethane		0.200U	0.200	0.00344	l mg/L
78-93-3	2-Butanone		0.200U	0.200	0.00373	3 mg/L
71-43-2	Benzene		0.200U	0.200	0.00217	mg/L
56-23-5	Carbon tetrachloride		0.200U	0.200	0.00592	2 mg/L
108-90-7	Chlorobenzene		0.200U	0.200	0.00110	) mg/L
67-66-3	Chloroform		0.200U	0.200	0.00226	6 mg/L
127-18-4	Tetrachloroethene		0.200U	0.200	0.00484	l mg/L
79-01-6	Trichloroethene		0.200U	0.200	0.00247	mg/L
75-01-4	Vinyl chloride		0.200U	0.200	0.00372	2 mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2000	2080	ug/L	104	62 - 130
1868-53-7	Dibromofluoromethane	2000	2050	ug/L	103	65 - 127
2037-26-5	Toluene d8	2000	2080	ug/L	104	71 - 134
17060-07-0	1,2-Dichloroethane-d4	2000	2110	ug/L	106	62 - 127

### SW-846 8270C TCLP

Prep Date 12/14/2010 08:5	<b>Prep Batch</b> 53 447409	Prep Method 3510C	Dilution 1	<b>Analyzed</b> 12/14/2010 19:31	<b>By</b> JEW	Analytical Batch 447429	1
CAS#	Parameter		Result	RDL		MDL	Units
106-46-7	1,4-Dichlorobenzene		0.0500U	0.0500		0.0006	mg/L
95-95-4	2,4,5-Trichlorophenol		0.0500U	0.0500		0.0006	mg/L
88-06-2	2,4,6-Trichlorophenol		0.0500U	0.0500		0.0008	mg/L
121-14-2	2,4-Dinitrotoluene		0.0500U	0.0500		0.0012	mg/L
1319-77-3	Cresols		0.1000U	0.1000		0.0024	mg/L
118-74-1	Hexachlorobenzene		0.0500U	0.0500		0.0013	mg/L
87-68-3	Hexachlorobutadiene		0.0500U	0.0500		0.0011	mg/L
67-72-1	Hexachloroethane		0.0500U	0.0500		0.0055	mg/L
98-95-3	Nitrobenzene		0.0500U	0.0500		0.0011	mg/L
87-86-5	Pentachlorophenol		0.2500U	0.2500		0.0076	mg/L
110-86-1	Pyridine		0.0500U	0.0500		0.0077	mg/L
1319-77-3MP	m,p-Cresol		0.0500U	0.0500		0.0017	mg/L
95-48-7	o-Cresol		0.0500U	0.0500		0.0009	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Rec	overy Re	c Limits
4165-60-0	Nitrobenzene-d5	250	212	ug/L		85 4	18 - 123
321-60-8	2-Fluorobiphenyl	250	213	ug/L		85 1	6 - 128
1718-51-0	Terphenyl-d14	250	189	ug/L		76 3	88 - 167
4165-62-2	Phenol-d5	500	183	ug/L		37 1	0 - 123
367-12-4	2-Fluorophenol	500	271	ug/L		54 1	0 - 120
118-79-6	2,4,6-Tribromophenol	500	370	ug/L		74 4	14 - 121

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21012101601	SOILS IN BERM AREA	Solid	12/08/2010 15:00	12/10/2010 08:40

## TX1005 Hydrocarbons by Range

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By Analytica	al Batch
12/14/2010 11	:00 447363	TNRCC 1005	1	12/16/2010 18:18	SMH 447615	
CAS#	Parameter		Result	RDL	MDL	Units
GCSV-05-02	>C12-C28		384000	50000	4350	ug/Kg
GCSV-05-03	>C28-C35		416000	50000	4350	ug/Kg
GCSV-05-01	C6-C12		24600J	50000	4450	ug/Kg
GCSV-05-04	Total TPH (C6-C35)		825000	50000	4350	ug/Kg
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50000	44500	ug/Kg	89	58 - 148

### SW-846 6010B TCLP

Prep Date 12/14/2010 10	<b>Prep Batch</b> 0:35 447424	Prep Method SW-846 3010A	<b>Dilution</b> 5	<b>Analyzed</b> 12/15/2010 18:09	By Analytic AJW 447501	cal Batch
CAS#	Parameter		Result	RDL	MDL	Units
7440-36-0	Antimony		0.30U	0.30	0.020	mg/L
7440-38-2	Arsenic		1.00U	1.00	0.013	mg/L
7440-39-3	Barium		1.10B	5.00	0.00055	mg/L
7440-43-9	Cadmium		0.0028B	0.050	0.00055	mg/L
7440-47-3	Chromium		0.25U	0.25	0.0017	mg/L
7440-50-8	Copper		0.10U	0.10	0.0069	mg/L
7439-92-1	Lead		0.50U	0.50	0.0070	mg/L
7440-02-0	Nickel		0.0076B	0.20	0.0048	mg/L
7782-49-2	Selenium		0.50U	0.50	0.022	mg/L
7440-22-4	Silver		0.25U	0.25	0.0030	mg/L

### SW-846 7470A TCLP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By Analytic	al Batch
12/14/2010 10	:35 447425	SW-846 7470A	1	12/15/2010 15:04	AJW 447395	
CAS#	Parameter		Result	RDL	MDL	Units
7439-97-6	Mercury		0.0020U	0.0020	0.000081	mg/L

### SW-846 9012A Reactivity CN

Prep Date 12/10/2010 1	<b>Prep Batch</b> 4:00 447140	Prep Method 7.3.3.2	<b>Dilution</b> 1	<b>Analyzed</b> 12/10/2010 16:35	By Ana AEL 447	alytical Batch 274	
CAS#	Parameter		Result	RDL	М	DL	Units
57-12-5R	Reactivity Cyanide		250U	250	:	250 r	ng/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21012101601	SOILS IN BERM AREA	Solid	12/08/2010 15:00	12/10/2010 08:40

# SW-846 9034 Reactivity Sulfide

Prep Date 12/10/2010 14:0	<b>Prep Batch</b> 00 447141	Prep Method Sec 7.3.4.2	<b>Dilution</b> 1	<b>Analyzed</b> 12/13/2010 11:25	<b>By</b> JEM	Analytical Batch 447342	
CAS#	Parameter		Result	RDL		MDL	Units
18496-25-8R	Reactivity Sulfide		80U	80		80	mg/kg

RESULTS REPORTED ON A WET WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21012101602	PCB TRANSFORMER WASH WATER	Water	12/08/2010 15:00	12/10/2010 08:40

### SW-846 8082A

Prep Date 12/15/2010 10	<b>Prep Batch</b> 0:55 447353	Prep Method 3510C	Dilution 1	<b>Analyzed</b> 12/15/2010 21:00	By Analyt	ical Batch
CAS#	Parameter		Result	RDL	MDL	Units
12674-11-2	Aroclor-1016		1.28U	1.28	0.431	ug/L
11104-28-2	Aroclor-1221		1.28U	1.28	0.285	ug/L
11141-16-5	Aroclor-1232		1.28U	1.28	0.129	ug/L
53469-21-9	Aroclor-1242		1.28U	1.28	0.217	ug/L
12672-29-6	Aroclor-1248		1.28U	1.28	0.131	ug/L
11097-69-1	Aroclor-1254		1.28U	1.28	0.110	ug/L
11096-82-5	Aroclor-1260		1.28U	1.28	0.338	ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
2051-24-3	Decachlorobiphenyl	.641	.194	ug/L	30	30 - 139

# GC/MS Volatiles Quality Control Summary

Analytical Bat	tch 447304	Client ID	MB447304			LCS447304			LCSD447304			
Prep Bat	tch N/A	GCAL ID	904859			904860			904861			
		Sample Type	Method Blank			LCS			LCSD			
		Analytical Date	12/12/2010 15:21			12/12/2010 14:10			12/12/2010 14:37			
		Matrix	Water			Water			Water			
CIA	V-846 8260B	TCLD	Units	mg/L	Spike	Decult		Control	Danult			RPD
SVI	V-040 0∠0UD	ICLP	Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
56-23-5	Carbon tetrach	loride	0.00500U	0.00500	0.050	0.057	114	76 - 128	0.056	111	2	30
67-66-3	Chloroform		0.00500U	0.00500	0.050	0.053	106	75 - 122	0.052	103	2	30
107-06-2	1,2-Dichloroeth	ane	0.00500U	0.00500	0.050	0.050	100	71 - 129	0.050	101	0	30
78-93-3	2-Butanone		0.00500U	0.00500	0.050	0.039	79	58 - 137	0.046	91	16	30
127-18-4	Tetrachloroethe	ene	0.00500U	0.00500	0.050	0.051	101	68 - 128	0.049	97	4	30
75-01-4	Vinyl chloride		0.00500U	0.00500	0.050	0.047	94	68 - 132	0.044	88	7	30
75-35-4	1,1-Dichloroeth	ene	0.00500U	0.00500	0.050	0.052	105	69 - 129	0.050	99	4	20
71-43-2	Benzene		0.00500U	0.00500	0.050	0.050	100	70 - 129	0.048	96	4	20
79-01-6	Trichloroethene	)	0.00500U	0.00500	0.050	0.055	109	76 - 129	0.050	101	10	20
108-90-7	Chlorobenzene		0.00500U	0.00500	0.050	0.048	97	74 - 123	0.048	96	0	20
Surrogate												
460-00-4	4-Bromofluorob	enzene	50.5	101	50	51.5	103	62 - 130	51.7	103		
1868-53-7	Dibromofluoron	nethane	52.2	104	50	54.5	109	65 - 127	53.1	106		
2037-26-5	Toluene d8		52.1	104	50	48.1	96	71 - 134	48.2	96		
17060-07-0	1,2-Dichloroeth	ane-d4	52.8	106	50	53	106	62 - 127	51.9	104		

Analytical E	3atch 447304	Client ID	SOILS IN BERM ARE	EA		904485MS		904485MSD				
Prep B	Batch N/A	GCAL ID	21012101601			904862			904863			
		Sample Type	SAMPLE			MS			MSD			
		Analytical Date	12/12/2010 16:31			12/12/2010 17:59			12/12/2010 18:21			
		Matrix	Solid			Solid			Solid			
9	W-846 8360B	TCLD	Units	mg/L	Spike	Result		Control	Result			RPD
SW-846 8260B TCLP			Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
56-23-5	Carbon tetrach	loride	0.00	0.200	2.00	2.26	113	76 - 128	2.15	108	5	30
67-66-3	Chloroform		0.00	0.200	2.00	2.17	109	75 - 122	2.05	103	6	30
107-06-2	1,2-Dichloroeth	ane	0.00	0.200	2.00	2.01	101	71 - 129	1.97	99	2	30
78-93-3	2-Butanone		0.00	0.200	2.00	1.60	80	58 - 137	1.64	82	2	30
127-18-4	Tetrachloroethe	ene	0.00	0.200	2.00	2.05	103	68 - 128	1.91	96	7	30
75-01-4	Vinyl chloride		0.00	0.200	2.00	0.501	25*	68 - 132	0.494	25*	1	30
75-35-4	35-4 1,1-Dichloroethene		0.00	0.200	2.00	1.68	84	69 - 129	1.56	78	7	30
71-43-2	Benzene		0.00	0.200	2.00	1.99	100	70 - 129	1.89	95	5	30
79-01-6	Trichloroethene	9	0.00	0.200	2.00	2.12	106	76 - 129	2.03	102	4	30

# GC/MS Volatiles Quality Control Summary

Analytical Batcl	h 447304	Client ID	SOILS IN BERM AR	EA		904485MS			904485MSD			
Prep Batcl	h N/A	GCAL ID	21012101601			904862			904863			
		Sample Type	SAMPLE			MS			MSD			
		<b>Analytical Date</b>	12/12/2010 16:31			12/12/2010 17:59			12/12/2010 18:21			
		Matrix	Solid			Solid			Solid			
SW	846 8260B	TCLD	Units	mg/L	Spike	Result		Control	Result			RPD
344-	040 0200D	ICLP	Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
108-90-7	Chlorobenzene		0.00	0.200	2.00	1.97	99	74 - 123	1.90	95	4	30
Surrogate												
460-00-4	4-Bromofluorob	enzene	2080	104	2000	2070	104	62 - 130	2060	103		
1868-53-7	Dibromofluoron	nethane	2050	103	2000	2100	105	65 - 127	2050	103		
2037-26-5	Toluene d8		2080	104	2000	1940	97	71 - 134	1940	97		
17060-07-0	1.2-Dichloroeth	ana d4	2110	106	2000	2080	104	62 - 127	2050	103		

# GC/MS Semi-Volatiles Quality Control Summary

<b>Analytical Batc</b>	h 447429	Client ID	MB447409			LCS447409			LCSD447409			
Prep Batc	h 447409	GCAL ID	905357			905358			905359			
Prep Metho	d 3510C	Sample Type	Method Blank			LCS			LCSD			
		Prep Date	12/14/2010 08:53			12/14/2010 08:53			12/14/2010 08:53			
		Analytical Date	12/14/2010 17:00			12/14/2010 17:15			12/14/2010 17:31			
		Matrix	Water			Water			Water			
CW	046 02700	TOLD	Units	mg/L	Spike	D!/		Control	D!/			RPD
344-	-846 8270C	ICLP	Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
118-74-1	Hexachlorober	zene	0.0500U	0.0500	0.100	0.069	69	61 - 120	0.069	69	0	30
87-68-3	Hexachlorobut	adiene	0.0500U	0.0500	0.100	0.066	66	17 - 120	0.067	67	2	30
67-72-1	Hexachloroeth	ane	0.0500U	0.0500	0.100	0.062	62	21 - 120	0.065	65	5	30
95-48-7	o-Cresol		0.0500U	0.0500	0.100	0.053	53	31 - 125	0.055	55	4	30
98-95-3	Nitrobenzene		0.0500U	0.0500	0.100	0.069	69	53 - 120	0.069	69	0	30
95-95-4	2,4,5-Trichloro	phenol	0.0500U	0.0500	0.100	0.066	66	60 - 120	0.067	67	2	30
88-06-2	2,4,6-Trichloro	phenol	0.0500U	0.0500	0.100	0.063	63	59 - 120	0.066	66	5	30
110-86-1	Pyridine		0.0500U	0.0500	0.100	0.037	37	10 - 120	0.040	40	8	30
1319-77-3	Cresols		0.1000U	0.1000	0.200	0.098	49	24 - 125	0.101	51	3	30
1319-77-3MP	m,p-Cresol		0.0500U	0.0500	0.100	0.043	43	24 - 125	0.045	45	5	30
106-46-7	1,4-Dichlorobe	nzene	0.0500U	0.0500	0.100	0.066	66	22 - 120	0.068	68	3	30
121-14-2	2,4-Dinitrotolue	ene	0.0500U	0.0500	0.100	0.066	66	37 - 138	0.068	68	3	30
87-86-5	Pentachloroph	enol	0.2500U	0.2500	0.100	0.058	58	25 - 158	0.057	57	2	30
Surrogate												
4165-60-0	Nitrobenzene-	d5	35.7	71	50	39.9	80	48 - 123	41.2	82		
321-60-8	2-Fluorobipher	nyl	36.7	73	50	42	84	16 - 128	44.2	88		
1718-51-0	Terphenyl-d14		38.3	77	50	40.8	82	38 - 167	41.9	84		
4165-62-2	Phenol-d5		33	33	100	36.5	37	10 - 123	38.1	38		
367-12-4	2-Fluoropheno	I	47	47	100	54.6	55	10 - 120	56.2	56		
118-79-6	2,4,6-Tribromo	phenol	58.9	59	100	68.6	69	44 - 121	72	72		

<b>Analytical Batch</b>	447429	Client ID	SOILS IN BERM ARE	ĒΑ		904485MS			904485MSD			
Prep Batch	447409	GCAL ID	21012101601			905500			905501			
Prep Method	I 3510C	Sample Type	SAMPLE			MS			MSD			
		Prep Date	12/14/2010 08:53				12/14/2010 08:53					
		Analytical Date	12/14/2010 19:31			12/14/2010 19:46			12/14/2010 20:01			
		Matrix	Solid			Solid			Solid			
S/W-	946 9270 <i>C</i>	TCLD	Units	mg/L	Spike	Result		Control	Result			RPD
344-	SW-846 8270C TCLP		Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
118-74-1	Hexachlorober	nzene	0.00	0.0500	0.500	0.345	69	61 - 120	0.381	76	10	30
87-68-3	Hexachlorobut	adiene	0.00	0.0500	0.500	0.323	65	17 - 120	0.344	69	6	30

# GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	447429	Client ID	SOILS IN BERM ARI	ΞA		904485MS			904485MSD			
Prep Batch	447409	GCAL ID	21012101601			905500			905501			
Prep Method	3510C	Sample Type	SAMPLE			MS			MSD			
		Prep Date	12/14/2010 08:53			12/14/2010 08:53			12/14/2010 08:53			
		Analytical Date	12/14/2010 19:31			12/14/2010 19:46			12/14/2010 20:01			
		Matrix	Solid			Solid			Solid			
CW	046 92700	TCLD	Units	mg/L	Spike	Decult		Control	Decult			RPD
SW-846 8270C TCLP		Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit	
67-72-1	Hexachloroetha	ane	0.00	0.0500	0.500	0.334	67	21 - 120	0.354	71	6	30
95-48-7	o-Cresol		0.00	0.0500	0.500	0.271	54	31 - 125	0.304	61	11	30
98-95-3	Nitrobenzene		0.00	0.0500	0.500	0.357	71	53 - 120	0.380	76	6	30
95-95-4	2,4,5-Trichlorop	ohenol	0.00	0.0500	0.500	0.348	70	60 - 120	0.378	76	8	30
88-06-2	2,4,6-Trichlorop	ohenol	0.00	0.0500	0.500	0.332	66	59 - 120	0.358	72	8	30
110-86-1	Pyridine		0.00	0.0500	0.500	0.242	48	10 - 120	0.250	50	3	30
1319-77-3	Cresols		0.00	0.1000	1.00	0.511	51	24 - 125	0.574	57	12	30
1319-77-3MP	m,p-Cresol		0.00	0.0500	0.500	0.232	46	24 - 125	0.263	53	13	30
106-46-7	1,4-Dichlorober	nzene	0.00	0.0500	0.500	0.337	67	22 - 120	0.356	71	5	30
121-14-2	2,4-Dinitrotolue	ne	0.00	0.0500	0.500	0.373	75	37 - 138	0.393	79	5	30
87-86-5	Pentachlorophe	enol	0.00	0.2500	0.500	0.316	63	25 - 158	0.339	68	7	30
Surrogate												
4165-60-0	Nitrobenzene-d	15	212	85	250	208	83	48 - 123	201	80		
321-60-8	2-Fluorobiphen	yl	213	85	250	216	86	16 - 128	210	84		
1718-51-0	Terphenyl-d14		189	76	250	197	79	38 - 167	195	78		
4165-62-2	Phenol-d5		183	37	500	186	37	10 - 123	179	36		
367-12-4	2-Fluorophenol		271	54	500	269	54	10 - 120	263	53		
118-79-6	2,4,6-Tribromo	phenol	370	74	500	382	76	44 - 121	351	70		

# General Chromatography Quality Control Summary

<b>Analytical Batc</b>	<b>h</b> 447536	Client ID	MB447353			LCS447353			LCSD447353			
Prep Batc	<b>h</b> 447353	GCAL ID	905060			905061			905062			
Prep Metho	<b>d</b> 3510C	Sample Type	Method Blank			LCS			LCSD			
		Prep Date	12/15/2010 10:55			12/15/2010 10:55			12/15/2010 10:55			
		<b>Analytical Date</b>	12/15/2010 20:05			12/15/2010 20:23			12/15/2010 20:42			
		Matrix	Water			Water			Water			
SW-846 8082A		Units	ug/L	Spike	Result		Control	Result			RPD	
344-040 0002A			Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
11104-28-2	Aroclor-1221		1.00U	1.00								
11141-16-5	Aroclor-1232		1.00U	1.00								
53469-21-9	Aroclor-1242		1.00U	1.00								
12672-29-6	Aroclor-1248		1.00U	1.00								
11097-69-1	Aroclor-1254		1.00U	1.00								
12674-11-2	Aroclor-1016		1.00U	1.00	4.00	3.65	91	57 - 130	4.13	103	12	35
11096-82-5	Aroclor-1260		1.00U	1.00	4.00	3.64	91	55 - 130	4.05	101	11	34
Surrogate												
2051-24-3	Decachlorobiph	nenyl	.336	67	.5	.351	70	30 - 139	.319	64		

## General Chromatography Quality Control Summary

<b>Analytical Batch</b>	447615	Client ID	MB447363			LCS447363			LCSD447363			
Prep Batch	447363	GCAL ID	905166			905167			905168			
Prep Method	I TNRCC 1005	Sample Type	Method Blank			LCS			LCSD			
		Prep Date	12/14/2010 11:00			12/14/2010 11:00			12/14/2010 11:00			
		<b>Analytical Date</b>	12/16/2010 14:46			12/16/2010 15:20			12/16/2010 15:56			
		Matrix	Solid			Solid			Solid			
TV100E Us	TX1005 Hydrocarbons by Range		Units	ug/Kg	Spike	Result		Control	Result			RPD
I V 1005 H	urocarboi	is by Kallye	Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
GCSV-05-01	C6-C12		50000U	50000								
GCSV-05-02	>C12-C28		50000U	50000								
GCSV-05-03	>C28-C35		50000U	50000								
GCSV-05-04	Total TPH (C6-	C35)	50000U	50000	198000	190000	96	75 - 125	182000	91	4	20
Surrogate												
84-15-1	o-Terphenyl		40800	82	49500	49000	99	58 - 148	40200	80		

<b>Analytical Batch</b>	447615	Client ID	SOILS IN BERM AR	EA		904485MS				904485MSD					
Prep Batch	447363	GCAL ID	21012101601			905169				905170					
Prep Method	TNRCC 1005	Sample Type	SAMPLE							MSD					
	Prep Date		12/14/2010 11:00			12/14/2010 11:00				12/14/2010 11:00					
		<b>Analytical Date</b>	12/16/2010 18:18			12/16/2010 18:54				12/16/2010 19:28					
		Matrix	Solid			Solid				Solid					
TV1005 Hv	drocarbor	ns by Range	Units	ug/Kg	Spike	Result	Control		ol	Result			RPD		
I X 1005 Hy	urocarboi	is by Kalige	Result	RDL	Added	Result	% R	Limits 9	% R	Result	% R	RPD	Limit		
GCSV-05-04	Total TPH (C6-	C35)	825000	50000	200000	1390000	284*	75 -	125	1090000	132*	24*	20		
Surrogate															
84-15-1	o-Terphenyl		44500	89	50000	42400	85	58 -	148	42700	85				

## Inorganics Quality Control Summary

Analytical Batch	447501	Client ID	MB447424			LCS447424		
Prep Batch	447424	GCAL ID	905406			905407		
Prep Method	SW-846	Sample Type	Method Blank			LCS		
	3010A	Prep Date	12/14/2010 10:35			12/14/2010 10:35		
		Analytical Date	12/15/2010 16:42			12/15/2010 16:49		
		Matrix	Water			Water		
SW-846 6010B TCLP		Units	mg/L	Spike	Result		Control	
344-0	SW-846 6010B TCLP		Result	RDL	Added	Result	% R	Limits % R
7440-36-0	Antimony		0.060U	0.060	0.50	0.49	99	80 - 120
7440-38-2	Arsenic		0.20U	0.20	0.50	0.51	102	80 - 120
7440-39-3	Barium		0.081B	1.00	0.50	0.57	115	80 - 120
7440-43-9	Cadmium		0.00028B	0.010	0.50	0.49	99	80 - 120
7440-47-3	Chromium		0.0019B	0.050	0.50	0.47	95	80 - 120
7440-50-8	Copper		0.0035B	0.020	0.50	0.51	102	80 - 120
7439-92-1	Lead		0.0059B	0.10	0.50	0.49	98	80 - 120
7440-02-0	Nickel		0.0021B	0.040	0.50	0.47	95	80 - 120
7782-49-2	Selenium		0.015B	0.10	0.50	0.56	111	80 - 120
7440-22-4	Silver		0.0017B	0.050	0.50	0.49	98	80 - 120

Analytical Batch	447501	Client ID	HAZ BARGE CLEA	NING SOLIDS		905123MS		
Prep Batch	447424	GCAL ID	21012131101			905409		
Prep Method	SW-846	Sample Type	SAMPLE			MS		
	3010A	Prep Date	12/14/2010 10:35			12/14/2010 10:35		
		Analytical Date	12/15/2010 16:56			12/15/2010 17:10		
		Matrix	Solid			Solid		
SW 946 6010B TCL B			Units	mg/L	Spike	Result		Control
SW-846 6010B TCLP		Result	RDL	Added	Result	% R	Limits % R	
7440-36-0	Antimony		0.0	0.30	0.50	0.48	97	75 - 125
7440-38-2	Arsenic		0.0	1.00	0.50	0.50	101	75 - 125
7440-39-3	Barium		0.44	5.00	0.50	0.96	102	75 - 125
7440-43-9	Cadmium		0.0010	0.050	0.50	0.51	101	75 - 125
7440-47-3	Chromium		0.0	0.25	0.50	0.50	100	75 - 125
7440-50-8	Copper		0.0	0.10	0.50	0.52	103	75 - 125
7439-92-1	Lead		0.015	0.50	0.50	0.51	99	75 - 125
7440-02-0	Nickel		0.37	0.20	0.50	0.89	104	75 - 125
7782-49-2	Selenium		0.0095	0.50	0.50	0.51	100	75 - 125
7440-22-4	Silver		0.0072	0.25	0.50	0.50	98	75 - 125

## Inorganics Quality Control Summary

Analytical Batch	447501	Client ID	HAZ BARGE CLEAN	NING SOLIDS	905123DUP		
Prep Batch		GCAL ID	21012131101		905408		
Prep Method	SW-846	Sample Type	SAMPLE		DUP		
	3010A	Prep Date	12/14/2010 10:35		12/14/2010 10:35		
		Analytical Date	12/15/2010 16:56		12/15/2010 17:03		
		Matrix	Solid		Solid		
SW-846 6010B TCLP			Units	mg/L	Decult		RPD
5W-846 6010B TCLP		Result	RDL	Result	RPD	Limit	
7440-36-0	Antimony		0.0	0.30	0.0	0	20
7440-38-2	Arsenic		0.0	1.00	0.0	0	20
7440-39-3	Barium		0.44	5.00	0.46	4	20
7440-43-9	Cadmium		0.0010	0.050	0.00012	157*	20
7440-47-3	Chromium		0.0	0.25	0.0027	200*	20
7440-50-8	Copper		0.0	0.10	0.0	0	20
7439-92-1	Lead		0.015	0.50	0.0059	87*	20
7440-02-0	Nickel		0.37	0.20	0.39	5	20
7782-49-2	Selenium		0.0095	0.50	0.0	200*	20
7440-22-4	Silver		0.0072	0.25	0.0023	103*	20

## Inorganics Quality Control Summary

Analytical Batch	447395	Client ID	MB447425			LCS447425		
Prep Batch	447425	GCAL ID	905411			905412		
Prep Method	SW-846	Sample Type	Method Blank			LCS		
	7470A	Prep Date	12/14/2010 10:35			12/14/2010 10:35		
		Analytical Date	12/15/2010 14:47			12/15/2010 14:52		
		Matrix	Water			Water		
S/W-8	246 74704	TCI D	Units	mg/L	Spike	Result		Control
344-0	SW-846 7470A TCLP			RDL	Added	Result	% R	Limits % R
7439-97-6	Mercury		0.0020U	0.0020	0.00500	0.00512	102	80 - 120

Analytical Batch	447395	Client ID	HAZ BARGE CLEAN	IING SOLIDS		905123MS		
Prep Batch	447425	GCAL ID	21012131101			905414		
Prep Method	SW-846	Sample Type	SAMPLE			MS		
	7470A	Prep Date	12/14/2010 10:35			12/14/2010 10:35		
		<b>Analytical Date</b>	12/15/2010 14:53			12/15/2010 14:56		
		Matrix	Solid			Solid		
S/W-8	246 74704	TCLD	Units	mg/L	Spike	Result		Control
SW-846 7470A TCLP			Result	RDL	Added	Result	% R	Limits % R
7439-97-6	Mercury		0.00000	0.0020	0.00500	0.00532	106	75 - 125

Analytical Batch	447395	Client ID	HAZ BARGE CLEANII	NG SOLIDS	905123DUP		
Prep Batch	447425	GCAL ID	21012131101		905413		
Prep Method	SW-846	Sample Type	SAMPLE		DUP		
	7470A	Prep Date	12/14/2010 10:35		12/14/2010 10:35		
		<b>Analytical Date</b>	12/15/2010 14:53		12/15/2010 14:55		
		Matrix	Solid		Solid		
S/W-8	246 7470A	TCLD	Units	mg/L	Result		RPD
344-0	SW-846 7470A TCLP			RDL	Nesuit	RPD	Limit
7439-97-6	Mercury		0.00000	0.0020	0.00000	0	20

## General Chemistry Quality Control Summary

Analytical Batch	447274	Client ID	MB447140			LCS447140		
Prep Batch	447140	GCAL ID	903952			903953		
Prep Method	7.3.3.2	Sample Type	Method Blank			LCS		
		Prep Date	12/10/2010 14:00			12/10/2010 14:00		
		Analytical Date	12/10/2010 16:25			12/10/2010 16:26		
		Matrix	Solid			Solid		
S/W_8/6 0	012A Pos	activity CN	Units	mg/kg	Spike	Result		Control
SW-846 9012A Reactivity CN			Result	RDL	Added	Nesult	% R	Limits % R
57-12-5R	Reactivity Cyar	nide	250U	250	250	25.6	10	1 - 25

Analytical Batch 447274	Client ID	GPT-120710-PM-001		903884DUP		
Prep Batch 447140	GCAL ID	21012084002		903954		
Prep Method 7.3.3.2	Sample Type	SAMPLE		DUP		
	Prep Date	12/10/2010 14:00		12/10/2010 14:00		
	<b>Analytical Date</b>	12/10/2010 16:33		12/10/2010 16:34		
	Matrix	Solid		Solid		
SW-846 9012A Rea	octivity CN	Units	mg/kg	Result		RPD
300-040 9012A Rea	Result	RDL	Result	RPD	Limit	
57-12-5R Reactivity Cyar	nide	0.0000	250	0.0000	0	25

## General Chemistry Quality Control Summary

Analytical Batch	447342	Client ID	MB447141			LCS447141		
Prep Batch	447141	GCAL ID	903955			903956		
Prep Method	Sec 7.3.4.2	Sample Type	Method Blank			LCS		
		Prep Date	12/10/2010 14:00			12/10/2010 14:00		
		<b>Analytical Date</b>	12/13/2010 11:25			12/13/2010 11:25		
		Matrix	Solid			Solid		
SW 846 00	24 Poacti	vity Sulfido	Units	mg/kg	Spike	Result		Control
SW-846 9034 Reactivity Sulfide			Result	RDL	Added	Result	% R	Limits % R
18496-25-8R F	18496-25-8R Reactivity Sulfide		80U	80	537	417	77.7	20 - 114

Analytical Batch	447342	Client ID	GPT-120710-PM-00	1	903884DUP		
Prep Batch	447141	GCAL ID	21012084002		903957		
Prep Method	Sec 7.3.4.2	Sample Type	SAMPLE		DUP		
		Prep Date	12/10/2010 14:00		12/10/2010 14:00		
		Analytical Date	12/13/2010 11:25		12/13/2010 11:25		
		Matrix	Solid		Solid		
SW-846 00	34 Poacti	wity Sulfido	Units	mg/kg	Result		RPD
SW-846 9034 Reactivity Sulfide			Result	RDL	Result	RPD	Limit
18496-25-8R	Reactivity Sulfice	de	0	80	0	0	25

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**Chain of Custody Record** 

Lab use only Columbia 210121016 1221-10 Client Name Group# Due Date 7979 GSRI AVE, BATON ROUGE LA 70820-7402 (225) 769-4900 FAX (225) 767-5717 Client: Columbia EST Analyscal Requests & Methods Report to: Client: Collimbia EST Address: 0.9 Contact: Phone: Fax: Fax: P.O. Number Project Name/Number Sampled By: Lab ID Pre-No. Sample Description Matrix Date serva-Con-(2400)tives tainers Remarks: Turn Afound Time: 24 - 48 hrs 3 days 1 week Received by: (Signature) email Resucts tnaaga Columbiaenvino.com. nquished by: (Signature) Received by: (Signature) Date: Time: 12.10:10 Received by: (Signature) Relinquished by: (Signature) Date: Time: By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

## **ANALYTICAL RESULTS**

#### **PERFORMED BY**

**GULF COAST ANALYTICAL LABORATORIES, INC.** 

**Report Date** 04/28/2010

**GCAL Report** 210041229



**Deliver To** Columbia Environmental Services, Inc. 13222 Reeveston Road Houston, TX 77039 713-400-5651

Attn Tony Maag

**Project** Gulfco Marine

#### **CASE NARRATIVE**

Client: Columbia Environmental Services, Inc Report: 210041229

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

#### **VOLATILES MASS SPECTROMETRY**

In the SW-846 1311/8260B analysis, samples 21004122901 (T2), 21004122903 (T6), 21004122904 (T6 MS), 21004122905 (T6 MSD), 21004122906 (T13), 21004122909 (T18), 21004122910 (T19), and 21004122911 (T21) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument. The dilutions are reflected in elevated reporting limits that have been lowered when necessary to meet the regulatory limit. The reporting limit exceeds the regulatory limit for vinyl chloride for sample 21004122911 (T21).

In the SW-846 1311/8260B analysis, a dilution factor of 40 was performed for samples 21004122902 (T4), 21004122907 (T15), 21004122908 (T16) and 21004122912 (T22). The reporting limits are at or below the regulatory limits at this dilution.

In the SW-846 1311/8260B analysis for analytical batch 429573, the MS/MSD exhibited recovery failures. All LCS/LCSD recoveries and RPDs are acceptable.

#### SEMI-VOLATILES GAS CHROMATOGRAPHY

In the TX 1005 analysis, sample 21004122908 (T16) had to be diluted to bracket target ranges within the calibration range of the instrument. This is reflected in elevated detection limits. The recovery for the surrogate is above the upper control limit. This can be attributed to a matrix interference as the surrogate eluted within the diesel "hump" of the chromatogram.

#### **CONVENTIONALS**

The Flashpoint analysis for samples 21004122907 (T15), 21004122909 (T18), 21004122910 (T19), and 21004122912 (T22) was performed by SW-846 Method 1010. The matrix is identified as a solid; while solid samples do not fall within the scope of this method, these samples are liquids.

## **Laboratory Endorsement**

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

#### **Common Abbreviations Utilized in this Report**

ND Indicates the result was Not Detected at the specified RDL DO Indicates the result was Diluted Out MΙ Indicates the result was subject to Matrix Interference Indicates the result was Too Numerous To Count TNTC **SUBC** Indicates the analysis was Sub-Contracted FLD Indicates the analysis was performed in the Field PQL **Practical Quantitation Limit** MDL Method Detection Limit RDL Reporting Detection Limit

00:00 Reported as a time equivalent to 12:00 AM

#### **Reporting Flags Utilized in this Report**

- J Indicates an estimated value
- **U** Indicates the compound was analyzed for but not detected
- **B** (ORGANICS) Indicates the analyte was detected in the associated Method Blank
- **B** (INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Robyn Migues	
Technical Director	
GCAL REPORT 210041229	
THIS REPORT CONTAINS	PAGES

# Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122901	T2	Water	04/06/2010 12:00	04/09/2010 12:06
21004122902	T4	Water	04/06/2010 15:00	04/09/2010 12:06
21004122903	T6	Water	04/06/2010 16:00	04/09/2010 12:06
21004122904	T6 MS	Water	04/06/2010 16:00	04/09/2010 12:06
21004122905	T6 MSD	Water	04/06/2010 16:00	04/09/2010 12:06
21004122906	T13	Solid	04/07/2010 11:00	04/09/2010 12:06
21004122907	T15	Solid	04/07/2010 16:00	04/09/2010 12:06
21004122908	T16	Water	04/07/2010 12:00	04/09/2010 12:06
21004122909	T18	Solid	04/07/2010 10:00	04/09/2010 12:06
21004122910	T19	Solid	04/07/2010 13:00	04/09/2010 12:06
21004122911	T21	Water	04/07/2010 15:00	04/09/2010 12:06
21004122912	T22	Solid	04/07/2010 10:15	04/09/2010 12:06

# Summary of Compounds Detected

SW-846 8260B TCLP         CAS#       Parameter       Result         107-06-2       1,2-Dichloroethane       28.9         78-93-3       2-Butanone       5.64         71-43-2       Benzene       2.43         67-66-3       Chloroform       1.25         127-18-4       Tetrachloroethene       0.534         79-01-6       Trichloroethene       12.7         SW-846 6010B TCLP         CAS#       Parameter       Result         7440-38-2       Arsenic       0.020B         7440-39-3       Barium       16.8         7440-47-3       Chromium       0.013B         7782-49-2       Selenium       0.0061B	0.200       0.017       mg/l         5.00       0.019       mg/l         0.200       0.011       mg/l         1.00       0.011       mg/l         0.200       0.024       mg/l         0.200       0.012       mg/l
107-06-2       1,2-Dichloroethane       28.9         78-93-3       2-Butanone       5.64         71-43-2       Benzene       2.43         67-66-3       Chloroform       1.25         127-18-4       Tetrachloroethene       0.534         79-01-6       Trichloroethene       12.7         SW-846 6010B TCLP         CAS#       Parameter       Result         7440-38-2       Arsenic       0.020B         7440-39-3       Barium       16.8         7440-47-3       Chromium       0.013B	0.200     0.017     mg/l       5.00     0.019     mg/l       0.200     0.011     mg/l       1.00     0.011     mg/l       0.200     0.024     mg/l       0.200     0.012     mg/l    RDL  MDL  Units
78-93-3       2-Butanone       5.64         71-43-2       Benzene       2.43         67-66-3       Chloroform       1.25         127-18-4       Tetrachloroethene       0.534         79-01-6       Trichloroethene       12.7         SW-846 6010B TCLP         CAS#       Parameter       Result         7440-38-2       Arsenic       0.020B         7440-39-3       Barium       16.8         7440-47-3       Chromium       0.013B	5.00 0.019 mg/l 0.200 0.011 mg/l 1.00 0.011 mg/l 0.200 0.024 mg/l 0.200 0.012 mg/l
71-43-2       Benzene       2.43         67-66-3       Chloroform       1.25         127-18-4       Tetrachloroethene       0.534         79-01-6       Trichloroethene       12.7         SW-846 6010B TCLP         CAS#       Parameter       Result         7440-38-2       Arsenic       0.020B         7440-39-3       Barium       16.8         7440-47-3       Chromium       0.013B	0.200 0.011 mg/l 1.00 0.011 mg/l 0.200 0.024 mg/l 0.200 0.012 mg/l
67-66-3       Chloroform       1.25         127-18-4       Tetrachloroethene       0.534         79-01-6       Trichloroethene       12.7         SW-846 6010B TCLP         CAS#       Parameter       Result         7440-38-2       Arsenic       0.020B         7440-39-3       Barium       16.8         7440-47-3       Chromium       0.013B	1.00 0.011 mg/l 0.200 0.024 mg/l 0.200 0.012 mg/l
127-18-4       Tetrachloroethene       0.534         79-01-6       Trichloroethene       12.7         SW-846 6010B TCLP         CAS#       Parameter       Result         7440-38-2       Arsenic       0.020B         7440-39-3       Barium       16.8         7440-47-3       Chromium       0.013B	0.200 0.024 mg/l 0.200 0.012 mg/l  RDL MDL Units
79-01-6         Trichloroethene         12.7           SW-846 6010B TCLP         CAS# Parameter Result           7440-38-2         Arsenic         0.020B           7440-39-3         Barium         16.8           7440-47-3         Chromium         0.013B	0.200 0.012 mg/l
SW-846 6010B TCLP         CAS#       Parameter       Result         7440-38-2       Arsenic       0.020B         7440-39-3       Barium       16.8         7440-47-3       Chromium       0.013B	RDL MDL Units
CAS#       Parameter       Result         7440-38-2       Arsenic       0.020B         7440-39-3       Barium       16.8         7440-47-3       Chromium       0.013B	
7440-38-2       Arsenic       0.020B         7440-39-3       Barium       16.8         7440-47-3       Chromium       0.013B	
7440-39-3       Barium       16.8         7440-47-3       Chromium       0.013B	0.20 0.0030 mg/l
7440-47-3 Chromium 0.013B	<u>-</u>
	1.00 0.00031 mg/l
7782-49-2 Selenium 0.0061R	0.050 0.00032 mg/l
	0.10 0.0037 mg/l
SW-846 7470A TCLP	
CAS# Parameter Result	RDL MDL Units
7439-97-6 Mercury 0.00067B	0.020 0.00055 mg/l
GCAL ID         Client ID         Matrix         Collect Date/           21004122902         T4         Water         04/06/2010 15	
	04/03/2010 12:00
SW-846 6010B TCLP	
CAS# Parameter Result	RDL MDL Units
7440-36-0 Antimony 0.020B	0.060 0.0035 mg/l
7440-38-2 Arsenic 0.0030B	0.20 0.0030 mg/l
7440-39-3 Barium 13.1	1.00 0.00031 mg/l
7440-02-0 Nickel 0.038B	0.040 0.0012 mg/l
GCAL ID Client ID Matrix Collect Date/	e/Time Receive Date/Time
21004122903 <b>T6</b> Water 04/06/2010 16	16:00 04/09/2010 12:06
SW-846 8260B TCLP	
CAS# Parameter Result	RDL MDL Units
107-06-2 1,2-Dichloroethane 6.91	0.500 0.00860 mg/l
71-43-2 Benzene 0.802	
67-66-3 Chloroform 5.36	
79-01-6 Trichloroethene 0.245J	0.500 0.00618 mg/l

GCAL ID 21004122903	Client ID T6	<b>Matrix</b> Water	Collect Date/Time 04/06/2010 16:00	Receive Date/Time 04/09/2010 12:06		
SW-846 8270	OC TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
1319-77-3	Cresols		0.027J	0.1000	0.0024	mg/L
1319-77-3MP	m,p-Cresol		0.012J	0.0500	0.0017	mg/L
95-48-7	o-Cresol		0.016J	0.0500	0.0009	mg/L
SW-846 6010	)B TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
7440-38-2	Arsenic		0.016B	0.20	0.0030	mg/L
7440-39-3	Barium		2.42	1.00	0.00031	mg/L
7440-43-9	Cadmium		0.0058B	0.010	0.00016	mg/L
7440-47-3	Chromium		0.0021B	0.050	0.00032	mg/L
7439-92-1	Lead		0.013B	0.10	0.0015	mg/L
7440-02-0	Nickel		0.50	0.040	0.0012	mg/L
SW-846 7470	OA TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
7439-97-6	Mercury		0.00011B	0.0020	0.000055	mg/L
GCAL ID	Client ID	Matrix	Collect Date/Time		Receive Date/Time	
21004122904	T6 MS	Water	04/06/2010 16:00		04/09/2010 12:06	
SW-846 8270	OC TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
106-46-7	1,4-Dichlorobenzene		0.414	0.0500	0.0006	mg/L
121-14-2	2,4-Dinitrotoluene		0.527	0.0500	0.0012	mg/L
1319-77-3	Cresols		0.031J	0.1000	0.0024	mg/L
87-86-5	Pentachlorophenol		0.403	0.2500	0.0076	mg/L
1319-77-3MP	m,p-Cresol		0.013J	0.0500	0.0017	mg/L
95-48-7	o-Cresol		0.018J	0.0500	0.0009	mg/L
SW-846 6010	)B TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
7440-36-0	Antimony		0.47	0.060	0.0035	mg/L
7440-38-2	Arsenic		0.53	0.20	0.0030	mg/L
7440-39-3	Barium		2.82	1.00	0.00031	mg/L
7440-41-7	Beryllium		0.49	0.0050	0.000068	mg/L
7440-43-9	Cadmium		0.49	0.010	0.00016	mg/L
7440-47-3	Chromium		0.49	0.050	0.00032	mg/L
7439-92-1 7440-02-0	Lead Nickel		0.49 0.96	0.10 0.040	0.0015	mg/L
7440-02-0 7782-49-2	Selenium		0.50	0.040	0.0012 0.0037	mg/L mg/L
			2.00	55	3.000	

7440-22-4 Si SW-846 7470A  CAS# Pa 7439-97-6 Mc  TX1005 Hydroca  CAS# Pa GCSV-05-02 >C	TCLP arameter liver TCLP arameter ercury arbons by Range arameter C12-C28 6-C12 otal TPH (C6-C35)	Water	04/06/2010 16:00  Result 0.49  Result 0.00527  Result 26900 24700 51600	RDL 0.050 RDL 0.0020 RDL 150	MDL 0.00058 MDL 0.00055 MDL 130 112	Units mg/L Units mg/L Units ug/L
CAS# Pa 7440-22-4 Si SW-846 7470A CAS# Pa 7439-97-6 Mo TX1005 Hydroca CAS# Pa GCSV-05-02 >C	arameter IVer ICLP arameter ercury arbons by Range arameter C12-C28 6-C12 otal TPH (C6-C35)		0.49  Result 0.00527  Result 26900 24700	0.050 RDL 0.0020 RDL 150 150	0.00058  MDL 0.000055  MDL 130	mg/L Units mg/L Units
7440-22-4 Si SW-846 7470A  CAS# Pa 7439-97-6 Mc  TX1005 Hydroca  CAS# Pa GCSV-05-02 >C	TCLP arameter ercury arbons by Range arameter C12-C28 G-C12 otal TPH (C6-C35)		0.49  Result 0.00527  Result 26900 24700	0.050 RDL 0.0020 RDL 150 150	0.00058  MDL 0.000055  MDL 130	mg/L Units mg/L Units
SW-846 7470A To CAS# Pa 7439-97-6 Mc TX1005 Hydroca CAS# Pa GCSV-05-02 > C	TCLP arameter ercury arbons by Range arameter C12-C28 5-C12 otal TPH (C6-C35)		Result 0.00527  Result 26900 24700	RDL 0.0020 RDL 150 150	MDL 0.000055 MDL 130	Units mg/L Units
CAS# Pa 7439-97-6 Me TX1005 Hydroca CAS# Pa GCSV-05-02 >C	arameter ercury arbons by Range arameter C12-C28 G-C12 otal TPH (C6-C35)		0.00527  Result 26900 24700	0.0020 RDL 150 150	0.000055 MDL 130	mg/L Units
7439-97-6 Mo TX1005 Hydroca CAS# Pa GCSV-05-02 >0	ercury Arbons by Range Arameter C12-C28 G-C12 Otal TPH (C6-C35)		0.00527  Result 26900 24700	0.0020 RDL 150 150	0.000055 MDL 130	mg/L Units
TX1005 Hydroca cas# Pa GCSV-05-02 >C	arbons by Range arameter C12-C28 G-C12 otal TPH (C6-C35)		Result 26900 24700	RDL 150 150	MDL 130	Units
CAS# Pa GCSV-05-02 >C	arameter C12-C28 G-C12 Otal TPH (C6-C35)		26900 24700	150 150	130	
GCSV-05-02 >0	C12-C28 G-C12 otal TPH (C6-C35)		26900 24700	150 150	130	
	6-C12 otal TPH (C6-C35)		24700	150		ug/L
CCCV OF O4 CC	otal TPH (C6-C35)				112	
GCSV-05-01 C6	,		51600			ug/L
GCSV-05-04 To	TCLP			150	112	ug/L
SW-846 8260B						
CAS# Pa	arameter		Result	RDL	MDL	Units
75-35-4 1, ⁻	1-Dichloroethene		4.26	0.500	0.016	mg/L
107-06-2 1,3	2-Dichloroethane		10.6	0.500	0.00860	mg/L
78-93-3 2-	Butanone		3.58	2.50	0.00933	mg/L
71-43-2 Be	enzene		5.24	0.500	0.00542	mg/L
56-23-5 Ca	arbon tetrachloride		4.24	0.500	0.015	mg/L
108-90-7 CI	nlorobenzene		4.40	0.500	0.00274	mg/L
67-66-3 Ch	nloroform		8.71	0.500	0.00565	mg/L
127-18-4 Te	etrachloroethene		4.64	0.500	0.012	mg/L
<b>79-01-6</b> Tr	ichloroethene		4.57	0.500	0.00618	mg/L
75-01-4 Vi	nyl chloride		4.37	0.500	0.00930	mg/L
	nt ID	Matrix	Collect Date/Time	R	Receive Date/Time	
21004122905 <b>T6 N</b>	MSD	Water	04/06/2010 16:00	0	04/09/2010 12:06	
SW-846 8270C	TCLP					
CAS# Pa	arameter		Result	RDL	MDL	Units
106-46-7 1,4	4-Dichlorobenzene		0.470	0.0500	0.0006	mg/L
121-14-2 2,4	4-Dinitrotoluene		0.527	0.0500	0.0012	mg/L
1319-77-3 Cr	resols		0.034J	0.1000	0.0024	mg/L
87-86-5 Pe	entachlorophenol		0.424	0.2500	0.0076	mg/L
1319-77-3MP m	,p-Cresol		0.014J	0.0500	0.0017	mg/L
95-48-7 o-	Cresol		0.020J	0.0500	0.0009	mg/L

GCAL ID 21004122905	Client ID T6 MSD	<b>Matrix</b> Water	Collect Date/Time 04/06/2010 16:00		<b>Receive Date/Time</b> 04/09/2010 12:06	
SW-846 6010	OB TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
7440-36-0	Antimony		0.49	0.060	0.0035	mg/L
7440-38-2	Arsenic		0.55	0.20	0.0030	mg/L
7440-39-3	Barium		2.99	1.00	0.00031	mg/L
7440-41-7	Beryllium		0.51	0.0050	0.000068	mg/L
7440-43-9	Cadmium		0.51	0.010	0.00016	mg/L
7440-47-3	Chromium		0.50	0.050	0.00032	mg/L
7439-92-1	Lead		0.51	0.10	0.0015	mg/L
7440-02-0	Nickel		1.01	0.040	0.0012	mg/L
7782-49-2	Selenium		0.51	0.10	0.0037	mg/L
7440-22-4	Silver		0.51	0.050	0.00058	mg/L
SW-846 7470	0A TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
7439-97-6	Mercury		0.00526	0.0020	0.000055	mg/L
SW-846 8260	OB TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
75-35-4	1,1-Dichloroethene		4.42	0.500	0.016	mg/L
107-06-2	1,2-Dichloroethane		9.17	0.500	0.00860	mg/L
78-93-3	2-Butanone		3.60	2.50	0.00933	mg/L
71-43-2	Benzene		5.14	0.500	0.00542	mg/L
56-23-5	Carbon tetrachloride		4.44	0.500	0.015	mg/L
108-90-7	Chlorobenzene		4.51	0.500	0.00274	mg/L
67-66-3	Chloroform		7.36	0.500	0.00565	mg/L
127-18-4	Tetrachloroethene		4.57	0.500	0.012	mg/L
79-01-6	Trichloroethene		4.45	0.500	0.00618	mg/L
75-01-4	Vinyl chloride		4.34	0.500	0.00930	mg/L
TX1005 Hydi	rocarbons by Range					
CAS#	Parameter		Result	RDL	MDL	Units
GCSV-05-02	>C12-C28		27100	149	130	ug/L
GCSV-05-01	C6-C12		24300	149	111	ug/L
GCSV-05-04	Total TPH (C6-C35)		51400	149	111	ug/L

GCAL ID 21004122906	Client ID T13	<b>Matrix</b> Solid	Collect Date/Time 04/07/2010 11:00	Receive Date/Time 04/09/2010 12:06		
SW-846 601	0B TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
7440-39-3	Barium		0.79B	1.00	0.00031	mg/L
7439-92-1	Lead		0.0056B	0.10	0.0015	mg/L
7782-49-2	Selenium		0.037B	0.10	0.0037	mg/L
7440-22-4	Silver		0.0015B	0.050	0.00058	mg/L
ASTM E203	-96 WaterK					
CAS#	Parameter		Result	RDL	MDL	Units
W-02-8	Karl Fisher H20		49.3	0.100	0.036	%
SW-846 826	60B TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
75-35-4	1,1-Dichloroethene		0.043J	0.200	0.00656	mg/L
107-06-2	1,2-Dichloroethane		1.42	0.200	0.00344	mg/L
71-43-2	Benzene		2.07	0.200	0.00217	mg/L
67-66-3	Chloroform		0.397	0.200	0.00226	mg/L
127-18-4	Tetrachloroethene		0.789	0.200	0.00484	mg/L
79-01-6	Trichloroethene		1.28	0.200	0.00247	mg/L
75-01-4	Vinyl chloride		0.068J	0.200	0.00372	mg/L
ASTM D240	Heat of Combustion					
CAS#	Parameter		Result	RDL	MDL	Units
WET-014	Heat of Combustion		3459	90	90	BTU/lb
GCAL ID	Client ID	Matrix	Collect Date/Time	R	Receive Date/Time	
21004122907	T15	Solid	04/07/2010 16:00	0	4/09/2010 12:06	
SW-846 826	60B TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
71-43-2	Benzene		0.105J	0.200	0.00217	mg/L
ASTM D240	Heat of Combustion					
CAS#	Parameter		Result	RDL	MDL	Units
WET-014	Heat of Combustion		17162	90	90	BTU/lb

GCAL ID 21004122908	Client ID	<b>Matrix</b> Water			Receive Date/Time 04/09/2010 12:06	
SW-846 827		vvaici	04/07/2010 12:00		04/09/2010 12:00	
CAS#	Parameter		Result	RDL	MDL	Units
1319-77-3	Cresols		0.012J	0.1000	0.0024	mg/L
1319-77-3MP 95-48-7	m,p-Cresol o-Cresol		0.00773J 0.00455J	0.0500 0.0500	0.0017 0.0009	mg/L
			0.004553	0.0500	0.0009	mg/L
SW-846 601	0B TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
7440-39-3	Barium		0.43B	1.00	0.00031	mg/L
7440-47-3	Chromium		0.013B	0.050	0.00032	mg/L
7439-92-1	Lead		0.0046B	0.10	0.0015	mg/L
7440-02-0	Nickel		0.060	0.040	0.0012	mg/L
7782-49-2	Selenium		0.0074B	0.10	0.0037	mg/L
SW-846 826	0B TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
78-93-3	2-Butanone		0.067J	1.00	0.00373	mg/L
TX1005 Hyd	rocarbons by Range					
CAS#	Parameter		Result	RDL	MDL	Units
GCSV-05-02	>C12-C28		97800	291	254	ug/L
GCSV-05-03	>C28-C35		49500	291	254	ug/L
GCSV-05-04	Total TPH (C6-C35)		147000	291	218	ug/L
GCAL ID	Client ID	Matrix	Collect Date/Time		Receive Date/Time	
21004122909	T18	Solid	04/07/2010 10:00		04/09/2010 12:06	
SW-846 826	0B TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane		0.299	0.200	0.017	mg/L
67-66-3	Chloroform		4.48	1.00	0.011	mg/L
GCAL ID	Client ID	Matrix	Collect Date/Time		Receive Date/Time	
21004122910	T19	Solid	04/07/2010 13:00		04/09/2010 12:06	
SW-846 826	0B TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane		0.051J	0.200	0.00344	mg/L
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GCAL ID 21004122910	Client ID T19	<b>Matrix</b> Solid	Collect Date/Time         Receive Date/Time           04/07/2010 13:00         04/09/2010 12:06			
SW-846 820	60B TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
71-43-2	Benzene		1.55	0.200	0.00217	mg/L
67-66-3	Chloroform		0.048J	0.200	0.00226	mg/L
79-01-6	Trichloroethene		0.047J	0.200	0.00247	mg/L
GCAL ID	Client ID	Matrix	Collect Date/Time		Receive Date/Time	
21004122911	T21	Water	04/07/2010 15:00		04/09/2010 12:06	
SW-846 82	60B TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane		22.1	0.500	0.043	mg/L
71-43-2	Benzene		1.16	0.500	0.027	mg/L
67-66-3	Chloroform		43.4	2.50	0.028	mg/L
GCAL ID	Client ID	Matrix	Collect Date/Time		Receive Date/Time	
21004122912	T22	Solid	04/07/2010 10:15		04/09/2010 12:06	
SW-846 82	60B TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
67-66-3	Chloroform		0.052J	0.200	0.00226	mg/L
SW-846 60	10B TCLP					
CAS#	Parameter		Result	RDL	MDL	Units
7440-39-3	Barium		0.47B	1.00	0.00031	mg/L
7439-92-1	Lead		0.0028B	0.10	0.0015	mg/L
7782-49-2	Selenium		0.041B	0.10	0.0037	mg/L
7440-22-4	Silver		0.0036B	0.050	0.00058	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122901	T2	Water	04/06/2010 12:00	04/09/2010 12:06

Prep Date	Prep Batch	Prep Method	Dilution 200	<b>Analyzed</b> 04/16/2010 01:26	By Analytic RJU 429573	cal Batch
CAS#	Parameter		Result	RDL	MDL	Units
75-35-4	1,1-Dichloroethene		0.200U	0.200	0.033	mg/L
107-06-2	1,2-Dichloroethane		28.9	0.200	0.017	mg/L
78-93-3	2-Butanone		5.64	5.00	0.019	mg/L
71-43-2	Benzene		2.43	0.200	0.011	mg/L
56-23-5	Carbon tetrachloride		0.200U	0.200	0.030	mg/L
108-90-7	Chlorobenzene		0.200U	0.200	0.00548	mg/L
67-66-3	Chloroform		1.25	1.00	0.011	mg/L
127-18-4	Tetrachloroethene		0.534	0.200	0.024	mg/L
79-01-6	Trichloroethene		12.7	0.200	0.012	mg/L
75-01-4	Vinyl chloride		0.200U	0.200	0.019	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	10000	10400	ug/L	104	62 - 130
1868-53-7	Dibromofluoromethane	10000	9880	ug/L	99	65 - 127
2037-26-5	Toluene d8	10000	10800	ug/L	108	71 - 134
17060-07-0	1,2-Dichloroethane-d4	10000	9200	ug/L	92	62 - 127

### SW-846 8270C TCLP

<b>Prep Date</b> 04/16/2010 08:0	<b>Prep Batch</b> 00 429512	Prep Method 3510C	Dilution 1	<b>Analyzed</b> 04/16/2010 13:57	-	Analytical Batch 129591	1
CAS#	Parameter		Result	RDL		MDL	Units
106-46-7	1,4-Dichlorobenzene		0.0500U	0.0500	(	0.0006	mg/L
95-95-4	2,4,5-Trichlorophenol		0.0500U	0.0500	(	0.0006	mg/L
88-06-2	2,4,6-Trichlorophenol		0.0500U	0.0500	(	0.0008	mg/L
121-14-2	2,4-Dinitrotoluene		0.0500U	0.0500	(	0.0012	mg/L
1319-77-3	Cresols		0.1000U	0.1000	(	0.0024	mg/L
118-74-1	Hexachlorobenzene		0.0500U	0.0500	(	0.0013	mg/L
87-68-3	Hexachlorobutadiene		0.0500U	0.0500	(	0.0011	mg/L
67-72-1	Hexachloroethane		0.0500U	0.0500	(	0.0055	mg/L
98-95-3	Nitrobenzene		0.0500U	0.0500	(	0.0011	mg/L
87-86-5	Pentachlorophenol		0.2500U	0.2500	(	0.0076	mg/L
110-86-1	Pyridine		0.0500U	0.0500	(	0.0077	mg/L
1319-77-3MP	m,p-Cresol		0.0500U	0.0500	(	0.0017	mg/L
95-48-7	o-Cresol		0.0500U	0.0500	(	0.0009	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recov	ery Re	c Limits
4165-60-0 N	Nitrobenzene-d5	250	211	ug/L		84 4	8 - 123
321-60-8 2	2-Fluorobiphenyl	250	246	ug/L		98 1	6 - 128
1718-51-0	Terphenyl-d14	250	180	ug/L		72 3	88 - 167
4165-62-2 F	Phenol-d5	500	171	ug/L		34 1	0 - 123
367-12-4 2	2-Fluorophenol	500	247	ug/L		49 1	0 - 120
118-79-6 2	2,4,6-Tribromophenol	500	557	ug/L		111 4	4 - 121

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122901	T2	Water	04/06/2010 12:00	04/09/2010 12:06

## SW-846 6010B TCLP

Prep Date 04/15/2010 08	<b>Prep Batch</b> :45 429492	Prep Method SW-846 3010A	Dilution 1	<b>Analyzed</b> 04/15/2010 23:49	By Analytic CLB 429524	cal Batch
CAS#	Parameter		Result	RDL	MDL	Units
7440-38-2	Arsenic		0.020B	0.20	0.0030	mg/L
7440-39-3	Barium		16.8	1.00	0.00031	mg/L
7440-43-9	Cadmium		0.010U	0.010	0.00016	mg/L
7440-47-3	Chromium		0.013B	0.050	0.00032	mg/L
7439-92-1	Lead		0.10U	0.10	0.0015	mg/L
7782-49-2	Selenium		0.0061B	0.10	0.0037	mg/L
7440-22-4	Silver		0.050U	0.050	0.00058	mg/L

## SW-846 7470A TCLP

Prep Date 04/15/2010 08:	<b>Prep Batch</b> :45 429494	Prep Method SW-846 7470A	<b>Dilution</b> 1	<b>Analyzed</b> 04/15/2010 12:03	<b>By</b> TEA	Analytical Batch 429521	
CAS#	Parameter		Result	RDL		MDL	Units
7439-97-6	Mercury		0.00067B	0.020		0.00055	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122902	T4	Water	04/06/2010 15:00	04/09/2010 12:06

Prep Date	Prep Batch	Prep Method	<b>Dilution</b> 40	<b>Analyzed</b> 04/15/2010 21:57	By Analytic SLR 429573	al Batch
CAS#	Parameter		Result	RDL	MDL	Units
75-35-4	1,1-Dichloroethene		0.200U	0.200	0.00656	mg/L
107-06-2	1,2-Dichloroethane		0.200U	0.200	0.00344	mg/L
78-93-3	2-Butanone		1.00U	1.00	0.00373	mg/L
71-43-2	Benzene		0.200U	0.200	0.00217	mg/L
56-23-5	Carbon tetrachloride		0.200U	0.200	0.00592	mg/L
108-90-7	Chlorobenzene		0.200U	0.200	0.00110	mg/L
67-66-3	Chloroform		0.200U	0.200	0.00226	mg/L
127-18-4	Tetrachloroethene		0.200U	0.200	0.00484	mg/L
79-01-6	Trichloroethene		0.200U	0.200	0.00247	mg/L
75-01-4	Vinyl chloride		0.200U	0.200	0.00372	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2000	1920	ug/L	96	62 - 130
1868-53-7	Dibromofluoromethane	2000	1990	ug/L	100	65 - 127
2037-26-5	Toluene d8	2000	1870	ug/L	94	71 - 134
17060-07-0	1,2-Dichloroethane-d4	2000	1930	ug/L	97	62 - 127

### SW-846 8270C TCLP

<b>Prep Date</b> 04/16/2010 08:0	<b>Prep Batch</b> 00 429512	Prep Method 3510C	<b>Dilution</b> 1	<b>Analyzed</b> 04/16/2010 14:12	-	nalytical Batch 29591	
CAS#	Parameter		Result	RDL		MDL	Units
106-46-7	1,4-Dichlorobenzene		0.0500U	0.0500	0	.0006	mg/L
95-95-4	2,4,5-Trichlorophenol		0.0500U	0.0500	0	.0006	mg/L
88-06-2	2,4,6-Trichlorophenol		0.0500U	0.0500	0	.0008	mg/L
121-14-2	2,4-Dinitrotoluene		0.0500U	0.0500	0	.0012	mg/L
1319-77-3	Cresols		0.1000U	0.1000	0	.0024	mg/L
118-74-1	Hexachlorobenzene		0.0500U	0.0500	0	.0013	mg/L
87-68-3	Hexachlorobutadiene		0.0500U	0.0500	0	.0011	mg/L
67-72-1	Hexachloroethane		0.0500U	0.0500	0	.0055	mg/L
98-95-3	Nitrobenzene		0.0500U	0.0500	0	.0011	mg/L
87-86-5	Pentachlorophenol		0.2500U	0.2500	0	.0076	mg/L
110-86-1	Pyridine		0.0500U	0.0500	0	.0077	mg/L
1319-77-3MP	m,p-Cresol		0.0500U	0.0500	0	.0017	mg/L
95-48-7	o-Cresol		0.0500U	0.0500	0	.0009	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recove	ry Rec	Limits
4165-60-0 N	Nitrobenzene-d5	250	233	ug/L		93 4	8 - 123
321-60-8 2	2-Fluorobiphenyl	250	235	ug/L		94 1	6 - 128
1718-51-0	Terphenyl-d14	250	182	ug/L		73 3	8 - 167
4165-62-2 F	Phenol-d5	500	211	ug/L		42 1	0 - 123
367-12-4 2	2-Fluorophenol	500	308	ug/L		62 1	0 - 120
118-79-6 2	2,4,6-Tribromophenol	500	512	ug/L	1	02 4	4 - 121

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122902	T4	Water	04/06/2010 15:00	04/09/2010 12:06

## TX1005 Hydrocarbons by Range

Prep Date 04/16/2010 14	<b>Prep Batch</b> 4:00 429379	Prep Method TNRCC 1005	Dilution 1	<b>Analyzed</b> 04/19/2010 15:41	By Analytic SMH 429750	al Batch
CAS#	Parameter		Result	RDL	MDL	Units
GCSV-05-02	>C12-C28		149U	149	130	ug/L
GCSV-05-03	>C28-C35		149U	149	130	ug/L
GCSV-05-01	C6-C12		149U	149	112	ug/L
GCSV-05-04	Total TPH (C6-C35)		149U	149	112	ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	16600	22400	ug/L	135	58 - 148

## SW-846 6010B TCLP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	Ву	Analytical Batch	
04/15/2010 08:45 429492		SW-846 3010A 1	04/16/2010 00:04	CLB	429524		
CAS#	Parameter		Result	RDL		MDL	Units
7440-36-0	Antimony		0.020B	0.060		0.0035	mg/L
7440-38-2	Arsenic		0.0030B	0.20		0.0030	mg/L
7440-39-3	Barium		13.1	1.00		0.00031	mg/L
7440-41-7	Beryllium		0.0050U	0.0050	(	0.000068	mg/L
7440-43-9	Cadmium		0.010U	0.010		0.00016	mg/L
7440-47-3	Chromium		0.050U	0.050		0.00032	mg/L
7439-92-1	Lead		0.10U	0.10		0.0015	mg/L
7440-02-0	Nickel		0.038B	0.040		0.0012	mg/L
7782-49-2	Selenium		0.10U	0.10		0.0037	mg/L
7440-22-4	Silver		0.050U	0.050		0.00058	mg/L

## SW-846 7470A TCLP

<b>Prep Date</b> 04/15/2010 08	<b>Prep Batch</b> 8:45 429494	Prep Method SW-846 7470A	Dilution 1	<b>Analyzed</b> 04/15/2010 12:04	By Ana TEA 429	alytical Batch 521
CAS#	Parameter		Result	RDL	МІ	DL Units
7439-97-6	Mercury		0.0020U	0.0020	0.0000	055 mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122903	T6	Water	04/06/2010 16:00	04/09/2010 12:06

Prep Date	Prep Batch	Prep Method	<b>Dilution</b> 100	<b>Analyzed</b> 04/15/2010 21:35	By Analytic SLR 429573	al Batch
CAS#	Parameter		Result	RDL	MDL	Units
75-35-4	1,1-Dichloroethene		0.500U	0.500	0.016	mg/L
107-06-2	1,2-Dichloroethane		6.91	0.500	0.00860	mg/L
78-93-3	2-Butanone		2.50U	2.50	0.00933	mg/L
71-43-2	Benzene		0.802	0.500	0.00542	mg/L
56-23-5	Carbon tetrachloride		0.500U	0.500	0.015	mg/L
108-90-7	Chlorobenzene		0.500U	0.500	0.00274	mg/L
67-66-3	Chloroform		5.36	0.500	0.00565	mg/L
127-18-4	Tetrachloroethene		0.500U	0.500	0.012	mg/L
79-01-6	Trichloroethene		0.245J	0.500	0.00618	mg/L
75-01-4	Vinyl chloride		0.100U	0.100	0.00930	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	5000	5020	ug/L	100	62 - 130
1868-53-7	Dibromofluoromethane	5000	5010	ug/L	100	65 - 127
2037-26-5	Toluene d8	5000	5010	ug/L	100	71 - 134
17060-07-0	1,2-Dichloroethane-d4	5000	4600	ug/L	92	62 - 127

### SW-846 8270C TCLP

<b>Prep Date</b> 04/16/2010 08:0	<b>Prep Batch</b> 00 429512	Prep Method 3510C	Dilution 1	<b>Analyzed</b> 04/16/2010 14:28	-	Analytical Batch 129591	1
CAS#	Parameter		Result	RDL		MDL	Units
106-46-7	1,4-Dichlorobenzene		0.0500U	0.0500	(	0.0006	mg/L
95-95-4	2,4,5-Trichlorophenol		0.0500U	0.0500	(	0.0006	mg/L
88-06-2	2,4,6-Trichlorophenol		0.0500U	0.0500	(	0.0008	mg/L
121-14-2	2,4-Dinitrotoluene		0.0500U	0.0500	(	0.0012	mg/L
1319-77-3	Cresols		0.027J	0.1000	(	0.0024	mg/L
118-74-1	Hexachlorobenzene		0.0500U	0.0500	(	0.0013	mg/L
87-68-3	Hexachlorobutadiene		0.0500U	0.0500	(	0.0011	mg/L
67-72-1	Hexachloroethane		0.0500U	0.0500	(	0.0055	mg/L
98-95-3	Nitrobenzene		0.0500U	0.0500	(	0.0011	mg/L
87-86-5	Pentachlorophenol		0.2500U	0.2500	(	0.0076	mg/L
110-86-1	Pyridine		0.0500U	0.0500	(	0.0077	mg/L
1319-77-3MP	m,p-Cresol		0.012J	0.0500	(	0.0017	mg/L
95-48-7	o-Cresol		0.016J	0.0500	(	0.0009	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recov	ery Re	c Limits
4165-60-0	Nitrobenzene-d5	250	218	ug/L		87	18 - 123
321-60-8	2-Fluorobiphenyl	250	212	ug/L		85	16 - 128
1718-51-0	Terphenyl-d14	250	174	ug/L		70	38 - 167
4165-62-2	Phenol-d5	500	227	ug/L		45	10 - 123
367-12-4	2-Fluorophenol	500	311	ug/L		62	10 - 120
118-79-6	2,4,6-Tribromophenol	500	496	ug/L		99	14 - 121

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122903	Т6	Water	04/06/2010 16:00	04/09/2010 12:06

## TX1005 Hydrocarbons by Range

Prep Date 04/16/2010 14	<b>Prep Batch</b> 4:00 429379	Prep Method TNRCC 1005	Dilution 1	<b>Analyzed</b> 04/20/2010 11:18	By Analytic SMH 429794	al Batch
CAS#	Parameter		Result	RDL	MDL	Units
GCSV-05-02	>C12-C28		145U	145	126	ug/L
GCSV-05-03	>C28-C35		145U	145	126	ug/L
GCSV-05-01	C6-C12		145U	145	109	ug/L
GCSV-05-04	Total TPH (C6-C35)		145U	145	109	ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	16100	18000	ug/L	112	58 - 148

## SW-846 6010B TCLP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	Ву	Analytical Batch	
04/15/2010 08	3:45 429492	SW-846 3010A	1	04/15/2010 20:48	CLB	429524	
CAS#	Parameter		Result	RDL		MDL	Units
7440-36-0	Antimony		0.060U	0.060		0.0035	mg/L
7440-38-2	Arsenic		0.016B	0.20		0.0030	mg/L
7440-39-3	Barium		2.42	1.00	0	.00031	mg/L
7440-41-7	Beryllium		0.0050U	0.0050	0.0	000068	mg/L
7440-43-9	Cadmium		0.0058B	0.010	0	.00016	mg/L
7440-47-3	Chromium		0.0021B	0.050	0	.00032	mg/L
7439-92-1	Lead		0.013B	0.10		0.0015	mg/L
7440-02-0	Nickel		0.50	0.040		0.0012	mg/L
7782-49-2	Selenium		0.10U	0.10		0.0037	mg/L
7440-22-4	Silver		0.050U	0.050	0	.00058	mg/L

## SW-846 7470A TCLP

<b>Prep Date</b> 04/15/2010 08	<b>Prep Batch</b> 8:45 429494	Prep Method SW-846 7470A	<b>Dilution</b> 1	<b>Analyzed</b> 04/15/2010 11:56	•	nalytical Batch 29521	
CAS#	Parameter		Result	RDL		MDL	Units
7439-97-6	Mercury		0.00011B	0.0020	0.00	00055	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122904	T6 MS	Water	04/06/2010 16:00	04/09/2010 12:06

Prep Date	Prep Batch	Prep Method	<b>Dilution</b> 100	<b>Analyzed</b> 04/15/2010 22:42	By Analytic RJU 429573	al Batch
CAS#	Parameter		Result	RDL	MDL	Units
75-35-4	1,1-Dichloroethene		4.26	0.500	0.016	mg/L
107-06-2	1,2-Dichloroethane		10.6	0.500	0.00860	mg/L
78-93-3	2-Butanone		3.58	2.50	0.00933	mg/L
71-43-2	Benzene		5.24	0.500	0.00542	mg/L
56-23-5	Carbon tetrachloride		4.24	0.500	0.015	mg/L
108-90-7	Chlorobenzene		4.40	0.500	0.00274	mg/L
67-66-3	Chloroform		8.71	0.500	0.00565	mg/L
127-18-4	Tetrachloroethene		4.64	0.500	0.012	mg/L
79-01-6	Trichloroethene		4.57	0.500	0.00618	mg/L
75-01-4	Vinyl chloride		4.37	0.500	0.00930	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	5000	5030	ug/L	101	62 - 130
1868-53-7	Dibromofluoromethane	5000	4800	ug/L	96	65 - 127
2037-26-5	Toluene d8	5000	4980	ug/L	100	71 - 134
17060-07-0	1,2-Dichloroethane-d4	5000	4610	ug/L	92	62 - 127

### SW-846 8270C TCLP

<b>Prep Date</b> 04/16/2010 08:	<b>Prep Batch</b> :00 429512	Prep Method 3510C	Dilution 1	<b>Analyzed</b> 04/16/2010 14:44	<b>By</b> KCB	Analytical Batc 429591	h
CAS#	Parameter		Result	RDL		MDL	Units
106-46-7	1,4-Dichlorobenzene		0.414	0.0500		0.0006	mg/L
95-95-4	2,4,5-Trichlorophenol		0.0500U	0.0500		0.0006	mg/L
88-06-2	2,4,6-Trichlorophenol		0.0500U	0.0500		0.0008	mg/L
121-14-2	2,4-Dinitrotoluene		0.527	0.0500		0.0012	mg/L
1319-77-3	Cresols		0.031J	0.1000		0.0024	mg/L
118-74-1	Hexachlorobenzene		0.0500U	0.0500		0.0013	mg/L
87-68-3	Hexachlorobutadiene		0.0500U	0.0500		0.0011	mg/L
67-72-1	Hexachloroethane		0.0500U	0.0500		0.0055	mg/L
98-95-3	Nitrobenzene		0.0500U	0.0500		0.0011	mg/L
87-86-5	Pentachlorophenol		0.403	0.2500		0.0076	mg/L
110-86-1	Pyridine		0.0500U	0.0500		0.0077	mg/L
1319-77-3MP	m,p-Cresol		0.013J	0.0500		0.0017	mg/L
95-48-7	o-Cresol		0.018J	0.0500		0.0009	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Reco	very Re	ec Limits
4165-60-0	Nitrobenzene-d5	250	229	ug/L		92	48 - 123
321-60-8	2-Fluorobiphenyl	250	239	ug/L		96	16 - 128
1718-51-0	Terphenyl-d14	250	182	ug/L		73	38 - 167
4165-62-2	Phenol-d5	500	219	ug/L		44	10 - 123
367-12-4	2-Fluorophenol	500	287	ug/L		57	10 - 120
118-79-6	2,4,6-Tribromophenol	500	532	ug/L		106	44 - 121

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122904	T6 MS	Water	04/06/2010 16:00	04/09/2010 12:06

## TX1005 Hydrocarbons by Range

Prep Date 04/16/2010 14	<b>Prep Batch</b> :00 429379	Prep Method TNRCC 1005	<b>Dilution</b> 1	<b>Analyzed</b> 04/20/2010 11:47	By Analytic SMH 429794	al Batch
CAS#	Parameter		Result	RDL	MDL	Units
GCSV-05-02	>C12-C28		26900	150	130	ug/L
GCSV-05-03	>C28-C35		150U	150	130	ug/L
GCSV-05-01	C6-C12		24700	150	112	ug/L
GCSV-05-04	Total TPH (C6-C35)		51600	150	112	ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	16600	19800	ug/L	119	58 - 148

## SW-846 6010B TCLP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	Ву	Analytical Batch	
04/15/2010 08	3:45 429492	SW-846 3010A 1 0	04/15/2010 20:55	CLB	429524		
CAS#	Parameter		Result	RDL		MDL	Units
7440-36-0	Antimony		0.47	0.060		0.0035	mg/L
7440-38-2	Arsenic		0.53	0.20		0.0030	mg/L
7440-39-3	Barium		2.82	1.00		0.00031	mg/L
7440-41-7	Beryllium		0.49	0.0050		0.000068	mg/L
7440-43-9	Cadmium		0.49	0.010		0.00016	mg/L
7440-47-3	Chromium		0.49	0.050		0.00032	mg/L
7439-92-1	Lead		0.49	0.10		0.0015	mg/L
7440-02-0	Nickel		0.96	0.040		0.0012	mg/L
7782-49-2	Selenium		0.50	0.10		0.0037	mg/L
7440-22-4	Silver		0.49	0.050		0.00058	mg/L

## SW-846 7470A TCLP

<b>Prep Date</b> 04/15/2010 08	<b>Prep Batch</b> 8:45 429494	Prep Method SW-846 7470A	Dilution 1	<b>Analyzed</b> 04/15/2010 11:58	•	nalytical Batch 19521	
CAS#	Parameter		Result	RDL	N	MDL Ur	nits
7439-97-6	Mercury		0.00527	0.0020	0.00	0055 m	ıg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122905	T6 MSD	Water	04/06/2010 16:00	04/09/2010 12:06

Prep Date	Prep Batch	Prep Method	<b>Dilution</b> 100	<b>Analyzed</b> 04/15/2010 23:04	By Analyti RJU 429573	cal Batch
CAS#	Parameter		Result	RDL	MDL	Units
75-35-4	1,1-Dichloroethene		4.42	0.500	0.016	mg/L
107-06-2	1,2-Dichloroethane		9.17	0.500	0.00860	mg/L
78-93-3	2-Butanone		3.60	2.50	0.00933	mg/L
71-43-2	Benzene		5.14	0.500	0.00542	mg/L
56-23-5	Carbon tetrachloride		4.44	0.500	0.015	mg/L
108-90-7	Chlorobenzene		4.51	0.500	0.00274	mg/L
67-66-3	Chloroform		7.36	0.500	0.00565	mg/L
127-18-4	Tetrachloroethene		4.57	0.500	0.012	mg/L
79-01-6	Trichloroethene		4.45	0.500	0.00618	mg/L
75-01-4	Vinyl chloride		4.34	0.500	0.00930	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	5000	4910	ug/L	98	62 - 130
1868-53-7	Dibromofluoromethane	5000	4990	ug/L	100	65 - 127
2037-26-5	Toluene d8	5000	5100	ug/L	102	71 - 134
17060-07-0	1,2-Dichloroethane-d4	5000	4660	ug/L	93	62 - 127

### SW-846 8270C TCLP

<b>Prep Date</b> 04/16/2010 08:	<b>Prep Batch</b> 00 429512	Prep Method 3510C	<b>Dilution</b> 1	<b>Analyzed</b> 04/16/2010 15:00	By Analy KCB 42959	rtical Batch 91
CAS#	Parameter		Result	RDL	MDI	Units
106-46-7	1,4-Dichlorobenzene		0.470	0.0500	0.000	6 mg/L
95-95-4	2,4,5-Trichlorophenol		0.0500U	0.0500	0.000	6 mg/L
88-06-2	2,4,6-Trichlorophenol		0.0500U	0.0500	0.000	8 mg/L
121-14-2	2,4-Dinitrotoluene		0.527	0.0500	0.001	2 mg/L
1319-77-3	Cresols		0.034J	0.1000	0.002	4 mg/L
118-74-1	Hexachlorobenzene		0.0500U	0.0500	0.001	3 mg/L
87-68-3	Hexachlorobutadiene		0.0500U	0.0500	0.001	1 mg/L
67-72-1	Hexachloroethane		0.0500U	0.0500	0.005	5 mg/L
98-95-3	Nitrobenzene		0.0500U	0.0500	0.001	1 mg/L
87-86-5	Pentachlorophenol		0.424	0.2500	0.007	6 mg/L
110-86-1	Pyridine		0.0500U	0.0500	0.007	7 mg/L
1319-77-3MP	m,p-Cresol		0.014J	0.0500	0.001	7 mg/L
95-48-7	o-Cresol		0.020J	0.0500	0.000	9 mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	250	244	ug/L	98	48 - 123
321-60-8	2-Fluorobiphenyl	250	245	ug/L	98	16 - 128
1718-51-0	Terphenyl-d14	250	181	ug/L	72	38 - 167
4165-62-2	Phenol-d5	500	222	ug/L	44	10 - 123
367-12-4	2-Fluorophenol	500	307	ug/L	61	10 - 120
118-79-6	2,4,6-Tribromophenol	500	512	ug/L	102	44 - 121

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122905	T6 MSD	Water	04/06/2010 16:00	04/09/2010 12:06

## TX1005 Hydrocarbons by Range

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed		tical Batch
04/16/2010 14	:00 429379	TNRCC 1005	1	04/19/2010 18:19	SMH 42975	0
CAS#	Parameter		Result	RDL	MDL	Units
GCSV-05-02	>C12-C28		27100	149	130	ug/L
GCSV-05-03	>C28-C35		149U	149	130	ug/L
GCSV-05-01	C6-C12		24300	149	111	l ug/L
GCSV-05-04	Total TPH (C6-C35)		51400	149	111	l ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	16500	20800	ug/L	126	58 - 148

## SW-846 6010B TCLP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	Ву	Analytical Batch	
04/15/2010 08	3:45 429492	SW-846 3010A	1	04/15/2010 21:02	CLB	429524	
CAS#	Parameter		Result	RDL		MDL	Units
7440-36-0	Antimony		0.49	0.060		0.0035	mg/L
7440-38-2	Arsenic		0.55	0.20		0.0030	mg/L
7440-39-3	Barium		2.99	1.00		0.00031	mg/L
7440-41-7	Beryllium		0.51	0.0050		0.000068	mg/L
7440-43-9	Cadmium		0.51	0.010		0.00016	mg/L
7440-47-3	Chromium		0.50	0.050		0.00032	mg/L
7439-92-1	Lead		0.51	0.10		0.0015	mg/L
7440-02-0	Nickel		1.01	0.040		0.0012	mg/L
7782-49-2	Selenium		0.51	0.10		0.0037	mg/L
7440-22-4	Silver		0.51	0.050		0.00058	mg/L

## SW-846 7470A TCLP

<b>Prep Date</b> 04/15/2010 08	<b>Prep Batch</b> 8:45 429494	Prep Method SW-846 7470A	Dilution 1	<b>Analyzed</b> 04/15/2010 12:00	•	Analytical Batch 429521	
CAS#	Parameter		Result	RDL		MDL	Units
7439-97-6	Mercury		0.00526	0.0020	0.	000055	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122906	T13	Solid	04/07/2010 11:00	04/09/2010 12:06

Prep Date	ate Prep Batch Prep Method		Dilution	Analyzed	-	cal Batch
			40	04/16/2010 01:50	RJU 429573	
CAS#	Parameter		Result	RDL	MDL	Units
75-35-4	1,1-Dichloroethene		0.043J	0.200	0.00656	mg/L
107-06-2	1,2-Dichloroethane		1.42	0.200	0.00344	mg/L
78-93-3	2-Butanone		0.200U	0.200	0.00373	mg/L
71-43-2	Benzene		2.07	0.200	0.00217	mg/L
56-23-5	Carbon tetrachloride		0.200U	0.200	0.00592	mg/L
108-90-7	Chlorobenzene		0.200U	0.200	0.00110	mg/L
67-66-3	Chloroform		0.397	0.200	0.00226	mg/L
127-18-4	Tetrachloroethene		0.789	0.200	0.00484	mg/L
79-01-6	Trichloroethene		1.28	0.200	0.00247	mg/L
75-01-4	Vinyl chloride		0.068J	0.200	0.00372	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2000	2150	ug/L	108	62 - 130
1868-53-7	Dibromofluoromethane	2000	1950	ug/L	98	65 - 127
2037-26-5	Toluene d8	2000	2190	ug/L	110	71 - 134
17060-07-0	1,2-Dichloroethane-d4	2000	1810	ug/L	91	62 - 127

### SW-846 6010B TCLP

Prep Date 04/15/2010 08:4	<b>Prep Batch</b> 5 429507	Prep Method SW-846 3010A	Dilution 1	<b>Analyzed</b> 04/15/2010 23:42	<b>By</b> CLB	Analytical Batch 429524	
CAS#	Parameter		Result	RDL		MDL	Units
7440-38-2	Arsenic		0.20U	0.20		0.0030	mg/L
7440-39-3	Barium		0.79B	1.00		0.00031	mg/L
7440-43-9	Cadmium		0.010U	0.010		0.00016	mg/L
7440-47-3	Chromium		0.050U	0.050		0.00032	mg/L
7439-92-1	Lead		0.0056B	0.10		0.0015	mg/L
7782-49-2	Selenium		0.037B	0.10		0.0037	mg/L
7440-22-4	Silver		0.0015B	0.050		0.00058	mg/L

## SW-846 7470A TCLP

Prep Date 04/15/2010 08	<b>Prep Batch</b> 3:45 429508	Prep Method SW-846 7470A	Dilution 1	<b>Analyzed</b> 04/15/2010 12:20	•	nalytical Batch 29521	
CAS#	Parameter		Result	RDL	N	MDL	Units
7439-97-6	Mercury		0.0020U	0.0020	0.00	0055	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122906	T13	Solid	04/07/2010 11:00	04/09/2010 12:06

## ASTM D240 Heat of Combustion

Prep Date 04/20/2010 08:00	<b>Prep Batch</b> 429779	Prep Method EPA 1010	<b>Dilution</b> 1	<b>Analyzed</b> 04/20/2010 08:00	<b>By</b> AEL	Analytical Batch 429780	
CAS#	Parameter		Result	RDL		MDL	Units
WET-014	Heat of Combustion		3459	90		90	BTU/lb

## ASTM E203-96 WaterK

Prep Date	Prep Batch	Prep Method	<b>Dilution</b> 1	<b>Analyzed</b> 04/13/2010 09:38	<b>By</b> JEM	Analytical Batch 429420	
CAS#	Parameter		Result	RDL		MDL	Units
W-02-8	Karl Fisher H20		49.3	0.100		0.036	%

RESULTS REPORTED ON A WET WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122907	T15	Solid	04/07/2010 16:00	04/09/2010 12:06

Prep Date	Prep Batch	Prep Method	<b>Dilution</b> 40	<b>Analyzed</b> 04/16/2010 02:14	By Analytica RJU 429573	l Batch
CAS#	Parameter		Result	RDL	MDL	Units
75-35-4	1,1-Dichloroethene		0.200U	0.200	0.00656	mg/L
107-06-2	1,2-Dichloroethane		0.200U	0.200	0.00344	mg/L
78-93-3	2-Butanone		0.200U	0.200	0.00373	mg/L
71-43-2	Benzene		0.105J	0.200	0.00217	mg/L
56-23-5	Carbon tetrachloride		0.200U	0.200	0.00592	mg/L
108-90-7	Chlorobenzene		0.200U	0.200	0.00110	mg/L
67-66-3	Chloroform		0.200U	0.200	0.00226	mg/L
127-18-4	Tetrachloroethene		0.200U	0.200	0.00484	mg/L
79-01-6	Trichloroethene		0.200U	0.200	0.00247	mg/L
75-01-4	Vinyl chloride		0.200U	0.200	0.00372	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2000	2030	ug/L	102	62 - 130
1868-53-7	Dibromofluoromethane	2000	2020	ug/L	101	65 - 127
2037-26-5	Toluene d8	2000	2190	ug/L	110	71 - 134
17060-07-0	1,2-Dichloroethane-d4	2000	2140	ug/L	107	62 - 127

## SW-846 1010 Flashpoint

Prep Date	Prep Batch	Prep Method	<b>Dilution</b> 1	<b>Analyzed</b> 04/15/2010 13:42	<b>By</b> MDT	Analytical Batch 429555	
CAS#	Parameter		Result	RDL		MDL	Units
000000-01-3	FlashPoint		>170	50		50	Deg F

### ASTM D240 Heat of Combustion

Prep Date 04/20/2010 08:	<b>Prep Batch</b> 00 429779	Prep Method EPA 1010	<b>Dilution</b> 1	<b>Analyzed</b> 04/20/2010 08:00	<b>By</b> AEL	Analytical Batch 429780	1
CAS#	Parameter		Result	RDL		MDL	Units
WET-014	Heat of Combustion		17162	90		90	BTU/lb

### ASTM E203-96 WaterK

Prep Date	Prep Batch	Prep Method	<b>Dilution</b> 1	<b>Analyzed</b> 04/13/2010 09:38	<b>By</b> JEM	Analytical Batch 429420	
CAS#	Parameter		Result	RDL		MDL	Units
W-02-8	Karl Fisher H20		0.100U	0.100		0.036	%

RESULTS REPORTED ON A WET WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122908	T16	Water	04/07/2010 12:00	04/09/2010 12:06

Prep Date	Prep Batch	Prep Method	<b>Dilution</b> 40	<b>Analyzed</b> 04/15/2010 23:52	By Analytica RJU 429573	al Batch
CAS#	Parameter		Result	RDL	MDL	Units
75-35-4	1,1-Dichloroethene		0.200U	0.200	0.00656	mg/L
107-06-2	1,2-Dichloroethane		0.200U	0.200	0.00344	mg/L
78-93-3	2-Butanone		0.067J	1.00	0.00373	mg/L
71-43-2	Benzene		0.200U	0.200	0.00217	mg/L
56-23-5	Carbon tetrachloride		0.200U	0.200	0.00592	mg/L
108-90-7	Chlorobenzene		0.200U	0.200	0.00110	mg/L
67-66-3	Chloroform		0.200U	0.200	0.00226	mg/L
127-18-4	Tetrachloroethene		0.200U	0.200	0.00484	mg/L
79-01-6	Trichloroethene		0.200U	0.200	0.00247	mg/L
75-01-4	Vinyl chloride		0.200U	0.200	0.00372	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2000	2170	ug/L	109	62 - 130
1868-53-7	Dibromofluoromethane	2000	1830	ug/L	92	65 - 127
2037-26-5	Toluene d8	2000	2150	ug/L	108	71 - 134
17060-07-0	1,2-Dichloroethane-d4	2000	1790	ug/L	90	62 - 127

### SW-846 8270C TCLP

<b>Prep Date</b> 04/16/2010 08:0	<b>Prep Batch</b> 00 429512	Prep Method 3510C	Dilution 1	<b>Analyzed</b> 04/16/2010 15:16	-	Analytical Batch 129591	h
CAS#	Parameter		Result	RDL		MDL	Units
106-46-7	1,4-Dichlorobenzene		0.0500U	0.0500	(	0.0006	mg/L
95-95-4	2,4,5-Trichlorophenol		0.0500U	0.0500	(	0.0006	mg/L
88-06-2	2,4,6-Trichlorophenol		0.0500U	0.0500	(	8000.0	mg/L
121-14-2	2,4-Dinitrotoluene		0.0500U	0.0500	(	0.0012	mg/L
1319-77-3	Cresols		0.012J	0.1000		0.0024	mg/L
118-74-1	Hexachlorobenzene		0.0500U	0.0500	(	0.0013	mg/L
87-68-3	Hexachlorobutadiene		0.0500U	0.0500	(	0.0011	mg/L
67-72-1	Hexachloroethane		0.0500U	0.0500	(	0.0055	mg/L
98-95-3	Nitrobenzene		0.0500U	0.0500	(	0.0011	mg/L
87-86-5	Pentachlorophenol		0.2500U	0.2500	(	0.0076	mg/L
110-86-1	Pyridine		0.0500U	0.0500	(	0.0077	mg/L
1319-77-3MP	m,p-Cresol		0.00773J	0.0500		0.0017	mg/L
95-48-7	o-Cresol		0.00455J	0.0500	(	0.0009	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recov	ery Re	c Limits
4165-60-0	Nitrobenzene-d5	250	241	ug/L		96	48 - 123
321-60-8	2-Fluorobiphenyl	250	285	ug/L		114	16 - 128
1718-51-0	Terphenyl-d14	250	154	ug/L		62	38 - 167
4165-62-2	Phenol-d5	500	207	ug/L		41	10 - 123
367-12-4	2-Fluorophenol	500	210	ug/L		42	10 - 120
118-79-6	2,4,6-Tribromophenol	500	486	ug/L		97	44 - 121

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122908	T16	Water	04/07/2010 12:00	04/09/2010 12:06

## TX1005 Hydrocarbons by Range

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By Analytic	al Batch
04/16/2010 14	:00 429379	TNRCC 1005	2	04/20/2010 12:16	SMH 429794	
CAS#	Parameter		Result	RDL	MDL	Units
GCSV-05-02	>C12-C28		97800	291	254	ug/L
GCSV-05-03	>C28-C35		49500	291	254	ug/L
GCSV-05-01	C6-C12		291U	291	218	ug/L
GCSV-05-04	Total TPH (C6-C35)		147000	291	218	ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	16200	26400	ug/L	163*	58 - 148

## SW-846 6010B TCLP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By Aı	nalytical Batch	
04/15/2010 08:45 429492		SW-846 3010A	SW-846 3010A 1	04/15/2010 21:43	CLB 42	9524	
CAS#	Parameter		Result	RDL	ı	/IDL	Units
7440-36-0	Antimony		0.060U	0.060	0.	0035	mg/L
7440-38-2	Arsenic		0.20U	0.20	0.	0030	mg/L
7440-39-3	Barium		0.43B	1.00	0.0	0031	mg/L
7440-41-7	Beryllium		0.0050U	0.0050	0.00	0068	mg/L
7440-43-9	Cadmium		0.010U	0.010	0.0	0016	mg/L
7440-47-3	Chromium		0.013B	0.050	0.0	0032	mg/L
7439-92-1	Lead		0.0046B	0.10	0.	0015	mg/L
7440-02-0	Nickel		0.060	0.040	0.	0012	mg/L
7782-49-2	Selenium		0.0074B	0.10	0.	0037	mg/L
7440-22-4	Silver		0.050U	0.050	0.0	0058	mg/L

### SW-846 7470A TCLP

Prep Date 04/15/2010 08	<b>Prep Batch</b> 3:45 429494	Prep Method SW-846 7470A	Dilution 1	<b>Analyzed</b> 04/15/2010 12:06	<b>By</b> TEA	Analytical Batch 429521	
CAS#	Parameter		Result	RDL		MDL	Units
7439-97-6	Mercury		0.02011	0.020		0.00055	ma/l

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122909	T18	Solid	04/07/2010 10:00	04/09/2010 12:06

Prep Date	Prep Batch	Prep Method         Dilution         Analyzed         By           200         04/16/2010 00:16         RJU		•	al Batch	
CAS#	Parameter		Result	RDL	MDL	Units
75-35-4	1,1-Dichloroethene		0.200U	0.200	0.033	mg/L
107-06-2	1,2-Dichloroethane		0.299	0.200	0.017	mg/L
78-93-3	2-Butanone		1.00U	1.00	0.019	mg/L
71-43-2	Benzene		0.200U	0.200	0.011	mg/L
56-23-5	Carbon tetrachloride		0.200U	0.200	0.030	mg/L
108-90-7	Chlorobenzene		0.200U	0.200	0.00548	mg/L
67-66-3	Chloroform		4.48	1.00	0.011	mg/L
127-18-4	Tetrachloroethene		0.200U	0.200	0.024	mg/L
79-01-6	Trichloroethene		0.200U	0.200	0.012	mg/L
75-01-4	Vinyl chloride		0.200U	0.200	0.019	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	10000	10200	ug/L	102	62 - 130
1868-53-7	Dibromofluoromethane	10000	10200	ug/L	102	65 - 127
2037-26-5	Toluene d8	10000	8850	ug/L	89	71 - 134
17060-07-0	1,2-Dichloroethane-d4	10000	10000	ug/L	100	62 - 127

### SW-846 1010 Flashpoint

Prep Date	Prep Batch	Prep Method	<b>Dilution</b> 1	<b>Analyzed</b> 04/15/2010 13:42	<b>By</b> MDT	Analytical Batch 429555	ı
CAS#	Parameter		Result	RDL		MDL	Units
000000-01-3	FlashPoint		>170	50		50	Dea F

RESULTS REPORTED ON A WET WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122910	T19	Solid	04/07/2010 13:00	04/09/2010 12:06

Prep Date	Prep Batch	Prep Method	<b>Dilution</b> 40	tion Analyzed By Analytical Batch 04/16/2010 02:37 RJU 429573		•
CAS#	Parameter		Result	RDL	М	DL Units
75-35-4	1,1-Dichloroethene		0.200U	0.200	0.006	556 mg/L
107-06-2	1,2-Dichloroethane		0.051J	0.200	0.003	844 mg/L
78-93-3	2-Butanone		0.200U	0.200	0.003	373 mg/L
71-43-2	Benzene		1.55	0.200	0.002	217 mg/L
56-23-5	Carbon tetrachloride		0.200U	0.200	0.005	592 mg/L
108-90-7	Chlorobenzene		0.200U	0.200	0.001	10 mg/L
67-66-3	Chloroform		0.048J	0.200	0.002	226 mg/L
127-18-4	Tetrachloroethene		0.200U	0.200	0.004	l84 mg/L
79-01-6	Trichloroethene		0.047J	0.200	0.002	247 mg/L
75-01-4	Vinyl chloride		0.200U	0.200	0.003	372 mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2000	1920	ug/L	96	62 - 130
1868-53-7	Dibromofluoromethane	2000	2030	ug/L	102	65 - 127
2037-26-5	Toluene d8	2000	1830	ug/L	92	71 - 134
17060-07-0	1,2-Dichloroethane-d4	2000	1670	ug/L	84	62 - 127

### SW-846 1010 Flashpoint

Prep Date	Prep Batch	Prep Method	<b>Dilution</b> 1	<b>Analyzed</b> 04/15/2010 13:42	<b>By</b> MDT	Analytical Batch 429555	ı
CAS#	Parameter		Result	RDL		MDL	Units
000000-01-3	FlashPoint		>170	50		50	Dea F

RESULTS REPORTED ON A WET WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122911	T21	Water	04/07/2010 15:00	04/09/2010 12:06

Prep Date	Prep Batch	Prep Method	<b>Dilution</b> 500	<b>Analyzed</b> 04/16/2010 00:39	By Analyt	ical Batch
CAS#	Parameter		Result	RDL	MDL	-
75-35-4	1.1-Dichloroethene		0.500U	0.500	0.082	
107-06-2	1,2-Dichloroethane		22.1	<b>0.500</b>	0.043	5
78-93-3	2-Butanone		12.5U	12.5	0.047	
71-43-2	Benzene		1.16	0.500	0.027	3
56-23-5	Carbon tetrachloride		0.500U	0.500	0.074	
108-90-7	Chlorobenzene		0.500U	0.500	0.014	mg/L
67-66-3	Chloroform		43.4	2.50	0.028	mg/L
127-18-4	Tetrachloroethene		0.500U	0.500	0.061	mg/L
79-01-6	Trichloroethene		0.500U	0.500	0.031	mg/L
75-01-4	Vinyl chloride		0.500U	0.500	0.047	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	25000	26100	ug/L	104	62 - 130
1868-53-7	Dibromofluoromethane	25000	24700	ug/L	99	65 - 127
2037-26-5	Toluene d8	25000	23600	ug/L	94	71 - 134
17060-07-0	1,2-Dichloroethane-d4	25000	24100	ug/L	96	62 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122912	T22	Solid	04/07/2010 10:15	04/09/2010 12:06

### SW-846 8260B TCLP

Prep Date	Prep Batch	Prep Method	<b>Dilution</b> 40	<b>Analyzed</b> 04/16/2010 01:03	By Analytica RJU 429573	I Batch
CAS#	Parameter		Result	RDL	MDL	Units
75-35-4	1,1-Dichloroethene		0.200U	0.200	0.00656	mg/L
107-06-2	1,2-Dichloroethane		0.200U	0.200	0.00344	mg/L
78-93-3	2-Butanone		0.200U	0.200	0.00373	mg/L
71-43-2	Benzene		0.200U	0.200	0.00217	mg/L
56-23-5	Carbon tetrachloride		0.200U	0.200	0.00592	mg/L
108-90-7	Chlorobenzene		0.200U	0.200	0.00110	mg/L
67-66-3	Chloroform		0.052J	0.200	0.00226	mg/L
127-18-4	Tetrachloroethene		0.200U	0.200	0.00484	mg/L
79-01-6	Trichloroethene		0.200U	0.200	0.00247	mg/L
75-01-4	Vinyl chloride		0.200U	0.200	0.00372	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2000	2040	ug/L	102	62 - 130
1868-53-7	Dibromofluoromethane	2000	2020	ug/L	101	65 - 127
2037-26-5	Toluene d8	2000	1980	ug/L	99	71 - 134
17060-07-0	1,2-Dichloroethane-d4	2000	1870	ug/L	94	62 - 127

#### SW-846 8270C TCLP

<b>Prep Date</b> 04/16/2010 08:0	<b>Prep Batch</b> 00 429512	Prep Method 3510C	<b>Dilution</b> 1	<b>Analyzed</b> 04/16/2010 15:32	By Analyti KCB 429591	cal Batch
CAS#	Parameter		Result	RDL	MDL	Units
106-46-7	1,4-Dichlorobenzene		0.0500U	0.0500	0.0006	mg/L
95-95-4	2,4,5-Trichlorophenol		0.0500U	0.0500	0.0006	mg/L
88-06-2	2,4,6-Trichlorophenol		0.0500U	0.0500	0.0008	mg/L
121-14-2	2,4-Dinitrotoluene		0.0500U	0.0500	0.0012	mg/L
1319-77-3	Cresols		0.1000U	0.1000	0.0024	mg/L
118-74-1	Hexachlorobenzene		0.0500U	0.0500	0.0013	mg/L
87-68-3	Hexachlorobutadiene		0.0500U	0.0500	0.0011	mg/L
67-72-1	Hexachloroethane		0.0500U	0.0500	0.0055	mg/L
98-95-3	Nitrobenzene		0.0500U	0.0500	0.0011	mg/L
87-86-5	Pentachlorophenol		0.2500U	0.2500	0.0076	mg/L
110-86-1	Pyridine		0.0500U	0.0500	0.0077	mg/L
1319-77-3MP	m,p-Cresol		0.0500U	0.0500	0.0017	mg/L
95-48-7	o-Cresol		0.0500U	0.0500	0.0009	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0 N	Nitrobenzene-d5	250	244	ug/L	98	48 - 123
321-60-8 2	2-Fluorobiphenyl	250	247	ug/L	99	16 - 128
1718-51-0	Γerphenyl-d14	250	182	ug/L	73	38 - 167
4165-62-2 F	Phenol-d5	500	211	ug/L	42	10 - 123
367-12-4	2-Fluorophenol	500	313	ug/L	63	10 - 120
118-79-6 2	2,4,6-Tribromophenol	500	512	ug/L	102	44 - 121

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21004122912	T22	Solid	04/07/2010 10:15	04/09/2010 12:06

### SW-846 6010B TCLP

Prep Date 04/15/2010 08	<b>Prep Batch</b> 3:45 429507	Prep Method SW-846 3010A	Dilution 1	<b>Analyzed</b> 04/15/2010 23:56	By Ana CLB 4299	lytical Batch 524
CAS#	Parameter		Result	RDL	M	DL Units
7440-38-2	Arsenic		0.20U	0.20	0.00	30 mg/L
7440-39-3	Barium		0.47B	1.00	0.000	31 mg/L
7440-43-9	Cadmium		0.010U	0.010	0.000	)16 mg/L
7440-47-3	Chromium		0.050U	0.050	0.000	)32 mg/L
7439-92-1	Lead		0.0028B	0.10	0.00	15 mg/L
7782-49-2	Selenium		0.041B	0.10	0.00	37 mg/L
7440-22-4	Silver		0.0036B	0.050	0.000	58 mg/L

### SW-846 7470A TCLP

Prep Date 04/15/2010 08	<b>Prep Batch</b> 3:45 429508	Prep Method SW-846 7470A	Dilution 1	<b>Analyzed</b> 04/15/2010 12:14	<b>By</b> TEA	Analytical Batch 429521	
CAS#	Parameter		Result	RDL		MDL	Units
7439-97-6	Mercury		0.0020U	0.0020	0	.000055	mg/L

### SW-846 1010 Flashpoint

Prep Date	Prep Batch	Prep Method	<b>Dilution</b> 1	<b>Analyzed</b> 04/15/2010 13:42	<b>By</b> MDT	Analytical Batch 429555	
CAS#	Parameter		Result	RDL		MDL	Units
000000-01-3	FlashPoint		>170	50		50	Deg F

RESULTS REPORTED ON A WET WEIGHT BASIS

### GC/MS Volatiles Quality Control Summary

Analytical Batch	429573	Client ID	MB429573			LCS429573			LCSD429573			
Prep Batch	N/A	GCAL ID	819322			819323			819324			
		Sample Type	Method Blank			LCS			LCSD			
		Analytical Date	04/15/2010 20:57			04/15/2010 19:11			04/15/2010 19:34			
		Matrix	Water			Water			Water			
C/W	846 8260B	TCLD	Units	mg/L	Spike	Decult		Control	Decult			RPD
344-	040 02000	ICLP	Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
56-23-5	Carbon tetrach	loride	0.00500U	0.00500	0.050	0.045	90	76 - 128	0.048	97	6	30
67-66-3	Chloroform		0.00500U	0.00500	0.050	0.045	91	75 - 122	0.049	99	9	30
107-06-2	1,2-Dichloroeth	ane	0.00500U	0.00500	0.050	0.045	89	71 - 129	0.048	96	6	30
78-93-3	2-Butanone		0.025U	0.025	0.050	0.042	84	58 - 137	0.048	95	13	30
127-18-4	Tetrachloroethe	ene	0.00500U	0.00500	0.050	0.048	95	68 - 128	0.048	96	0	30
75-01-4	Vinyl chloride		0.00100U	0.00100	0.050	0.041	83	68 - 132	0.046	92	11	30
75-35-4	1,1-Dichloroeth	iene	0.00500U	0.00500	0.050	0.045	90	69 - 129	0.046	91	2	20
71-43-2	Benzene		0.00500U	0.00500	0.050	0.046	91	70 - 129	0.050	100	8	20
79-01-6	Trichloroethene	e	0.00500U	0.00500	0.050	0.048	96	76 - 129	0.049	98	2	20
108-90-7	Chlorobenzene	•	0.00500U	0.00500	0.050	0.046	91	74 - 123	0.052	103	12	20
Surrogate												
460-00-4	4-Bromofluorob	enzene	46.8	94	50	48.4	97	62 - 130	45.9	92		
1868-53-7	Dibromofluoror	nethane	49	98	50	49.4	99	65 - 127	48.7	97		
2037-26-5	Toluene d8		46.8	94	50	48.9	98	71 - 134	44.5	89		
17060-07-0	1,2-Dichloroeth	ane-d4	46.2	92	50	48.8	98	62 - 127	46	92		

Analytical Ba	tch 429573	Client ID	T6			T6 MS			T6 MSD			
Prep Ba	tch N/A	GCAL ID	21004122903			21004122904			21004122905			
		Sample Type	SAMPLE			MS			MSD			
		Analytical Date	04/15/2010 21:35			04/15/2010 22:42			04/15/2010 23:04			
		Matrix	Water			Water			Water			
SW-846 8260B TCLP		TCLD	Units	mg/L	Spike	Result		Control	Result			RPD
3W-846 8260B ICLP		Result	RDL	Added	Result	% R	Limits % R	Kesuit	% R	RPD	Limit	
75-35-4	1,1-Dichloroeth	nene	0.00	0.500	5.00	4.26	85	69 - 129	4.42	88	4	30
107-06-2	1,2-Dichloroeth	nane	6.91	0.500	5.00	10.6	74	71 - 129	9.17	45*	14	30
78-93-3	2-Butanone		0.00	2.50	5.00	3.58	72	58 - 137	3.60	72	0.6	30
71-43-2	Benzene		0.802	0.500	5.00	5.24	89	70 - 129	5.14	87	2	30
56-23-5	Carbon tetrach	loride	0.00	0.500	5.00	4.24	85	76 - 128	4.44	89	5	30
108-90-7	Chlorobenzene	)	0.00	0.500	5.00	4.40	88	74 - 123	4.51	90	2	30
67-66-3	Chloroform		5.36	0.500	5.00	8.71	67*	75 - 122	7.36	40*	17	30
127-18-4	Tetrachloroeth	ene	0.00	0.500	5.00	4.64	93	68 - 128	4.57	91	2	30
79-01-6	Trichloroethen	е	0.245	0.500	5.00	4.57	87	76 - 129	4.45	84	3	30

### GC/MS Volatiles Quality Control Summary

<b>Analytical Batc</b>	<b>h</b> 429573	Client ID	T6			T6 MS			T6 MSD			
Prep Batc	h N/A	GCAL ID	21004122903			21004122904			21004122905			
		Sample Type	SAMPLE			MS			MSD			
		Analytical Date	04/15/2010 21:35			04/15/2010 22:42			04/15/2010 23:04			
	Matri		Water			Water			Water			
SW-846 8260B TCLP		Units	mg/L	Spike	Result		Control	Result			RPD	
344	-040 0200D	ICLP	Result	RDL	Added	% F		Limits % R	Result	% R	RPD	Limit
75-01-4	Vinyl chloride		0.00	0.100	5.00	4.37	87	68 - 132	4.34	87	0.7	30
Surrogate												
460-00-4	4-Bromofluorob	enzene	5020	100	5000	5030	101	62 - 130	4910	98		
1868-53-7	Dibromofluoron	nethane	5010	100	5000	4800	96	65 - 127	4990	100		
2037-26-5	Toluene d8		5010	100	5000	4980	100	71 - 134	5100	102		
17060-07-0	1,2-Dichloroeth	ane-d4	4600	92	5000	4610	92	62 - 127	4660	93		

### GC/MS Semi-Volatiles Quality Control Summary

<b>Analytical Batc</b>	h 429591	Client ID	MB429512			LCS429512			LCSD429512			
Prep Batc	h 429512	GCAL ID	818949			818950			818951			
Prep Metho	d 3510C	Sample Type	Method Blank			LCS			LCSD			
		Prep Date	04/16/2010 08:00			04/16/2010 08:00			04/16/2010 08:00			
		Analytical Date	04/16/2010 13:10			04/16/2010 13:25			04/16/2010 13:41			
		Matrix	Water			Water			Water			
S/W	-846 8270C	TCLD	Units	mg/L	Spike	Decult		Control	Decult			RPD
SVV.	-040 02/00	ICLP	Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
118-74-1	Hexachloroben	zene	0.0500U	0.0500								
87-68-3	Hexachlorobuta	adiene	0.0500U	0.0500								
67-72-1	Hexachloroetha	ane	0.0500U	0.0500								
95-48-7	o-Cresol		0.0500U	0.0500								
98-95-3	Nitrobenzene		0.0500U	0.0500								
95-95-4	2,4,5-Trichloro	phenol	0.0500U	0.0500								
88-06-2	2,4,6-Trichloro	phenol	0.0500U	0.0500								
110-86-1	Pyridine		0.0500U	0.0500								
1319-77-3	Cresols		0.1000U	0.1000								
1319-77-3MP	m,p-Cresol		0.0500U	0.0500								
106-46-7	1,4-Dichlorobe	nzene	0.0500U	0.0500	0.100	0.095	95	22 - 120	0.086	86	10	30
121-14-2	2,4-Dinitrotolue	ene	0.0500U	0.0500	0.100	0.110	110	37 - 138	0.108	108	2	33
87-86-5	Pentachlorophe	enol	0.2500U	0.2500	0.100	0.070	70	25 - 158	0.074	74	6	32
Surrogate												
4165-60-0	Nitrobenzene-	d5	41.5	83	50	50.5	101	48 - 123	47.4	95		
321-60-8	2-Fluorobiphen	nyl	40.6	81	50	50.6	101	16 - 128	44.6	89		
1718-51-0	Terphenyl-d14		31.8	64	50	39.2	78	38 - 167	36.6	73		
4165-62-2	Phenol-d5		28.8	29	100	35.4	35	10 - 123	33.2	33		
367-12-4	2-Fluoropheno	I	44.5	45	100	52.2	52	10 - 120	45.7	46		
118-79-6	2,4,6-Tribromo	phenol	93.8	94	100	112	112	44 - 121	106	106		1

<b>Analytical Batch</b>	429591	Client ID	T6			T6 MS			T6 MSD			
Prep Batch	429512	GCAL ID	21004122903			21004122904			21004122905			
Prep Method	3510C	Sample Type	SAMPLE			MS			MSD			
		Prep Date	04/16/2010 08:00			04/16/2010 08:00			04/16/2010 08:00			
		Analytical Date	04/16/2010 14:28			04/16/2010 14:44			04/16/2010 15:00			
		Matrix	Water			Water			Water			
S/W-	246 22700	TCLD	Units	mg/L	Spike	Result		Control	Result			RPD
344-	SW-846 8270C TCLP		Result	RDL	Added	Nesuit	% R	Limits % R	Result	% R	RPD	Limit
106-46-7	106-46-7 1,4-Dichlorobenzene		0.00	0.0500	0.500	0.414	83	22 - 120	0.470	94	13	30
121-14-2	21-14-2 2,4-Dinitrotoluene		0.00	0.0500	0.500	0.527	105	37 - 138	0.527	105	0	33

### GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	429591	Client ID	T6			T6 MS			T6 MSD			
Prep Batch	429512	GCAL ID	21004122903			21004122904			21004122905			
Prep Method	3510C	Sample Type	SAMPLE			MS			MSD			
		Prep Date	04/16/2010 08:00			04/16/2010 08:00			04/16/2010 08:00			
		Analytical Date	04/16/2010 14:28			04/16/2010 14:44			04/16/2010 15:00			
		Matrix	Water			Water			Water			
6///	246 92700	TCLD	Units	mg/L	Spike	Result		Control	Result			RPD
300-	SW-846 8270C TCLP		Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
87-86-5	Pentachlorophe	enol	0.00	0.2500	0.500	0.403	81	25 - 158	0.424	85	5	32
Surrogate												
4165-60-0	Nitrobenzene-d	15	218	87	250	229	92	48 - 123	244	98		
321-60-8	2-Fluorobiphen	yl	212	85	250	239	96	16 - 128	245	98		
1718-51-0	Terphenyl-d14		174	70	250	182	73	38 - 167	181	72		
4165-62-2	Phenol-d5		227	45	500	219	44	10 - 123	222	44		
367-12-4	2-Fluorophenol		311	62	500	287	57	10 - 120	307	61		İ
118-79-6	2,4,6-Tribromo	phenol	496	99	500	532	106	44 - 121	512	102		

## General Chromatography Quality Control Summary

<b>Analytical Batch</b>	429750	Client ID	MB429379			LCS429379			LCSD429379			
Prep Batch	429379	GCAL ID	818201			818202			818203			
Prep Method	TNRCC 1005	Sample Type	Method Blank			LCS			LCSD			
		Prep Date	04/16/2010 14:00			04/16/2010 14:00			04/16/2010 14:00			
		<b>Analytical Date</b>	04/16/2010 14:07			04/16/2010 14:37			04/16/2010 15:08			
		Matrix	Water			Water			Water			
TV1005 U	drocarboi	ns by Range	Units	ug/L	Spike	Result		Control	Result			RPD
1 × 1003 H	di Ocai boi	is by Kallye	Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
GCSV-05-01	C6-C12		142U	142								
GCSV-05-02	>C12-C28		142U	142								
GCSV-05-03	>C28-C35		142U	142								
GCSV-05-04	Total TPH (C6-	C35)	142U	142	57700	47400	82	75 - 125	45200	78	5	20
Surrogate												
84-15-1	o-Terphenyl		20300	128	16000	18600	116	58 - 148	17000	105		

<b>Analytical Batch</b>	429794	Client ID	T6			T6 MS				T6 MSD			
Prep Batch	429379	GCAL ID	21004122903			21004122904				21004122905			
Prep Method	TNRCC 1005	Sample Type	SAMPLE			MS				MSD			
		Prep Date	04/16/2010 14:00			04/16/2010 14:00				04/16/2010 14:00			
		<b>Analytical Date</b>	04/20/2010 11:18			04/20/2010 11:47				04/19/2010 18:19			
		Matrix	Water			Water				Water			
TV1005 Hv	drocarboi	ns by Range	Units	ug/L	Spike	Result		Contro	ol	Result			RPD
I X 1003 Hy	urocarboi	is by Kallye	Result	RDL	Added	Result	% R	Limits %	R	Result	% R	RPD	Limit
GCSV-05-04	Total TPH (C6-	C35)	0.00	145	59800	51600	86	75 - <i>1</i>	125	51400	86	0.4	20
Surrogate													
84-15-1	o-Terphenyl		18000	112	16600	19800	119	58 - 1	148	20800	126		

Analytical Batch	429524	Client ID	MB429492			LCS429492		
Prep Batch	429492	GCAL ID	818811			818812		
Prep Method	SW-846	Sample Type	Method Blank			LCS		
	3010A	Prep Date	04/15/2010 08:45			04/15/2010 08:45		
		Analytical Date	04/15/2010 20:21			04/15/2010 20:42		
		Matrix	Water			Water		
S/W/-8	346 6010B	TCLD	Units	mg/L	Spike	Result		Control
344-0	940 00 100	ICLF	Result	RDL	Added	Result	% R	Limits % R
7440-36-0	Antimony		0.060U	0.060	0.50	0.50	100	80 - 120
7440-38-2	Arsenic		0.20U	0.20	0.50	0.54	107	80 - 120
7440-39-3	Barium		1.00U	1.00	0.50	0.53	106	80 - 120
7440-41-7	Beryllium		0.0050U	0.0050	0.50	0.52	104	80 - 120
7440-43-9	Cadmium		0.010U	0.010	0.50	0.53	106	80 - 120
7440-47-3	Chromium		0.00091B	0.050	0.50	0.53	106	80 - 120
7439-92-1	Lead		0.10U	0.10	0.50	0.54	109	80 - 120
7440-02-0	Nickel		0.040U	0.040	0.50	0.53	106	80 - 120
7782-49-2	Selenium		0.10U	0.10	0.50	0.53	106	80 - 120
7440-22-4	Silver		0.050U	0.050	0.50	0.53	106	80 - 120

<b>Analytical Batch</b>	429524	Client ID	MB429507			LCS429507		
Prep Batch	429507	GCAL ID	818922			818923		
Prep Method	SW-846	Sample Type	Method Blank			LCS		
	3010A	Prep Date	04/15/2010 08:45			04/15/2010 08:45		
		Analytical Date	04/15/2010 23:28			04/15/2010 23:35		
		Matrix	Water			Water		
SW 6	346 6010E	TCLD	Units	mg/L	Spike	Result		Control
344-0	340 00 100	O I CLP	Result	RDL	Added	Result	% R	Limits % R
7440-38-2	Arsenic		0.20U	0.20	0.50	0.51	102	80 - 120
7440-39-3	Barium		0.0012B	1.00	0.50	0.50	99	80 - 120
7440-43-9	Cadmium		0.010U	0.010	0.50	0.52	104	80 - 120
7440-47-3	Chromium		0.050U	0.050	0.50	0.50	99	80 - 120
7439-92-1	Lead		0.10U	0.10	0.50	0.50	99	80 - 120
7782-49-2	Selenium		0.032B	0.10	0.50	0.59	118	80 - 120
7440-22-4	Silver		0.0030B	0.050	0.50	0.51	102	80 - 120

<b>Analytical Batch</b>	429524	Client ID	T6			T6 MS			T6 MSD			
Prep Batch	429492	GCAL ID	21004122903			21004122904			21004122905			
Prep Method	SW-846	Sample Type	SAMPLE			MS			MSD			
	3010A	Prep Date	04/15/2010 08:45			04/15/2010 08:45			04/15/2010 08:45			
		Analytical Date	04/15/2010 20:48			04/15/2010 20:55			04/15/2010 21:02			
		Matrix	Water			Water			Water			
S/W-S	346 6010B	TCLD	Units	mg/L	Spike	Result		Control	Result			RPD
344-6	40 00 100	ICLP	Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
7440-36-0	Antimony		0.0	0.060	0.50	0.47	94	75 - 125	0.49	98	4	20
7440-38-2	Arsenic		0.016	0.20	0.50	0.53	102	75 - 125	0.55	106	4	20
7440-39-3	Barium		2.42	1.00	0.50	2.82	80	75 - 125	2.99	115	6	20
7440-41-7	Beryllium		0.0	0.0050	0.50	0.49	98	75 - 125	0.51	101	4	20
7440-43-9	Cadmium		0.0058	0.010	0.50	0.49	97	75 - 125	0.51	100	4	20
7440-47-3	Chromium		0.0021	0.050	0.50	0.49	97	75 - 125	0.50	100	2	20
7439-92-1	Lead		0.013	0.10	0.50	0.49	96	75 - 125	0.51	100	4	20
7440-02-0	Nickel		0.50	0.040	0.50	0.96	92	75 - 125	1.01	102	5	20
7782-49-2	Selenium		0.0	0.10	0.50	0.50	100	75 - 125	0.51	102	2	20
7440-22-4	Silver		0.0	0.050	0.50	0.49	98	75 - 125	0.51	103	4	20

Analytical Batch	429524	Client ID	MARCH 2010 CHIP	SAMPLE		817987MS			817987MSD			
Prep Batch	429507	GCAL ID	21004122401			818925			818924			
Prep Method	SW-846	Sample Type	SAMPLE			MS			MSD			
	3010A	Prep Date	04/15/2010 08:45			04/15/2010 08:45			04/15/2010 08:45			
		<b>Analytical Date</b>	04/15/2010 22:04			04/15/2010 22:11			04/15/2010 22:18			
		Matrix	Solid			Solid			Solid			
C/M/	SW-846 6010B TCLP		Units	mg/L	Spike	Result		Control	Result			RPD
344-	SW-846 6010B TCLP		Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
7440-38-2	Arsenic		0.0	0.20	0.50	0.52	103	75 - 125	0.51	102	2	20
7440-39-3	Barium		0.21	1.00	0.50	0.71	101	75 - 125	0.72	102	1	20
7440-43-9	Cadmium		0.00041	0.010	0.50	0.53	105	75 - 125	0.52	105	2	20
7440-47-3	Chromium		0.0	0.050	0.50	0.50	101	75 - 125	0.50	101	0	20
7439-92-1	Lead		2.55	0.10	0.50	3.06	102	75 - 125	3.07	104	0.3	20
7782-49-2	Selenium		0.020	0.10	0.50	0.60	116	75 - 125	0.58	113	3	20
7440-22-4	Silver		0.048	0.050	0.50	0.57	105	75 - 125	0.58	106	2	20

Analytical Batch	429521	Client ID	MB429494			LCS429494		
Prep Batch	429494	GCAL ID	818820			818821		
Prep Method	SW-846	Sample Type	Method Blank			LCS		
	7470A	Prep Date	04/15/2010 08:45			04/15/2010 08:45		
		<b>Analytical Date</b>	04/15/2010 11:53			04/15/2010 11:55		
		Matrix	Water			Water		
S/W 9	346 7470A	TCLD	Units	mg/L	Spike	Result		Control
344-0	940 / 4/ UA	ICLF	Result	RDL	Added	Nesult	% R	Limits % R
7439-97-6	Mercury		0.0020U	0.0020	0.00500	0.00504	101	80 - 120

Analytical Batch	429521	Client ID	MB429508			LCS429508		
Prep Batch	429508	GCAL ID	818928			818929		
Prep Method	SW-846	Sample Type	Method Blank			LCS		
	7470A	Prep Date	04/15/2010 08:45			04/15/2010 08:45		
		<b>Analytical Date</b>	04/15/2010 12:08			04/15/2010 12:13		
		Matrix	Water			Water		
S/W-8	346 7470A	TCLD	Units	mg/L	Spike	Result		Control
344-0	940 /4/UA	ICLF	Result	RDL	Added	Result	% R	Limits % R
7439-97-6	Mercury		0.0020U	0.0020	0.00500	0.00482	96	80 - 120

Analytical Batch	429521	Client ID	T6			T6 MS			T6 MSD			
Prep Batch	429494	GCAL ID	21004122903			21004122904			21004122905			
Prep Method	SW-846	Sample Type	SAMPLE			MS			MSD			
	7470A	Prep Date	04/15/2010 08:45			04/15/2010 08:45			04/15/2010 08:45			
		Analytical Date	04/15/2010 11:56			04/15/2010 11:58			04/15/2010 12:00			
		Matrix	Water			Water			Water			
S/W 9	46 7470A	TCLD	Units	mg/L	Spike	Result		Control	Result			RPD
344-0	40 /4/02	ICLF	Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
7439-97-6	Mercury		0.00011	0.0020	0.00500	0.00527	103	75 - 125	0.00526	103	0.2	20

Analytical Batch	429521	Client ID	T22			818046MS			818046MSD			
Prep Batch	429508	GCAL ID	21004122912			818930			818931			
Prep Method	SW-846	Sample Type	SAMPLE			MS			MSD			
	7470A	Prep Date	04/15/2010 08:45			04/15/2010 08:45			04/15/2010 08:45			
		<b>Analytical Date</b>	04/15/2010 12:14			04/15/2010 12:16			04/15/2010 12:17			
		Matrix	Solid			Solid			Solid			
S/W S	46 7470A	TCI D	Units	mg/L	Spike	Result		Control	Result			RPD
344-0	940 /4/UA	ICLF	Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
7439-97-6	Mercury		0.00000	0.0020	0.00500	0.00512	102	75 - 125	0.00508	102	0.8	20

### General Chemistry Quality Control Summary

Analytical Batch 42	9555	Client ID	LCS429555			
Prep Batch N/	'A	GCAL ID	820399			
		Sample Type	LCS			
		<b>Analytical Date</b>	04/15/2010 13	3:42		
		Matrix	Solid			
SW-846 1	1010 Ela	shpoint	Spike	Result		Control
344-040	IUIU FIA	Silpoilit	Added	Result	% R	Limits % R
000000-01-3 Flas	shPoint		90	91	101	97.8 -102.2

### General Chemistry Quality Control Summary

Analytical Batch 429780	Client ID	OIL BURN	817500DUP			
Prep Batch 429779	GCAL ID	21004091501		820745		
Prep Method EPA 1010	Sample Type	SAMPLE		DUP		
	Prep Date	04/20/2010 08:00		04/20/2010 08:00		
	Analytical Date	04/20/2010 08:00		04/20/2010 08:00		
	Matrix	Solid	Solid			
ASTM D240 Heat of Combustion		Units	BTU/lb	Result		RPD
ASTIVI D240 Heat Of Combustion		Result	RDL	Result	RPD	Limit
WET-014 Heat of Cor	Heat of Combustion		90	13388	6	25

### General Chemistry Quality Control Summary

Analytical Batch 429420	Client ID	126127	816248DUP			
Prep Batch N/A	GCAL ID	21004061901		818415		
	Sample Type	SAMPLE		DUP		
	Analytical Date	04/13/2010 09:38		04/13/2010 09:38		
	Matrix	Solid		Solid		
ASTM E203-96 WaterK		Units	%	Result		RPD
ASTWIEZUS-90 Water K		Result	RDL	Result	RPD	Limit
W-02-8 Karl Fisher H20		11.2	0.100	11.7	4.37	25

# GCAL **...**

CHAIN OF CUSTODY RECORD

GULF COAST ANALYTICAL LABORATORIES, INC 7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402 Phone 225.769.4900 • Fax 225.767.5717		Cilent Name	imb aE	ov'	Client #	2100	Workorder #	4-20-10 Due Date
Report to:  Client: Clumbia Env. Services  Address: 13222 Recreston  Houston TX 77039  Contact: Tony Mag  Phone: 13-818-4845  Fax: 281-42-117  P.O. Number  Project Name/Number	Bill of Client: Same Address:  Contact: Phone: Fax:  Sine Bettern	to:	es Containers  23  33  23  1	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	A RCBA 8 m418-TCLA Shirt 10055  Flashperint Polosopology	Method	Lab use only: Custody Seal used  yes in tact  yes Temperature °C	Lab ID  Lab ID  Lab ID  7  8  9  10  11
Relinquished by: (Signature) Received by Received by Received by	C Shill (Signature)	Stan Date: U/9/W Date:	dard Time:  Time: Time:	Other Note:	hese samples, you a	agree to the terr	ns and	

DATA VALIDATION CHECKLIST					
(Level III)	il Citli				
Client Name: Pastor, Behling, & Wheeler	Project	Number	· 1597B	1	
Property Location: Gulfco Superfund Site	Project Number: 1597B Project Manager: Eric Pastor				
Laboratory: GCAL – Baton Rouge, LA					
·				1011405	
Reviewer: Taryn Scholz/ Don Flory (QAA, L.L.C.)	1	necked: 2			
ITEM	Yes	No	NA	<b>Comment Number</b>	
Chain of Custody (COC) and Sample Receipt at Lab	T		1		
1. Signed COCs included and seals used?	X				
2. Date and time of sample collection included?	X				
3. All samples listed on the COC analyzed for in accordance with the RI/FS Work Plan?			X		
4. Field QC sample frequency met project requirements?	X				
5. Sample receipt temperature 2-6°C?	X				
6. Samples preserved appropriately?	X				
7. Samples received within 2 days of collection?	X				
8. No problems noted?	X				
Laboratory Report and Data Package					
9. Signed Case Narrative included?	X				
10. No analytical discrepancies noted in case narrative?		X		10.	
11. Elevated reporting limits justified?	X			11.	
12. MDLs reasonable per MDL Check?	X				
13. Calibration data acceptable?		X		see Attachment 1	
14. ICV and CCV recoveries within project control limits?		X		see Attachment 1	
15. ICB and CCB results <rl (mql)?<="" td=""><td></td><td></td><td>X</td><td></td></rl>			X		
16. Internal standard areas within project control limits?	X				
Laboratory EDD					
17. Field sample IDs included?	X				
18. Laboratory sample IDs included?	X				
19. Date of analysis included?	X				
20. Date of sample preparation included?	X			20.	
21. Samples prepared within holding time?	X				
22. Samples analyzed within holding time?	X				
23. Detection limit and quantitation limit included?	X				
24. Project target limits achieved?		X		24.	
25. No elevated reporting limits for NDs?		X		25.	
26. Method references included?	X				
27. Sample matrix included?	X				
28. Sample result units reported correctly?	X			28.	
29. Soil/ sediment results corrected for dry-weight?	X				
30. Method blank results <rl (mdl)?<="" td=""><td>X</td><td></td><td></td><td></td></rl>	X				
31. Equipment and Trip blank results <rl (mdl)?<="" td=""><td>X</td><td></td><td></td><td></td></rl>	X				
32. All COIs included in LCS?	X			32.	
33. LCS recovery within project control limits?	<u> </u>	X		see Attachment 1	
34. MS/MSD recoveries within project control limits?	<u> </u>	X		see Attachment 1	
35. LCS/LCSD RPDs within project control limits?	<u> </u>	X		see Attachment 1	
36. MS/MSD RPDs within project control limits?	<u> </u>	X		see Attachment 1	
37. Laboratory duplicate RPDs/Diffs within project control limits?	<u> </u>		X		
38. Field duplicate RPDs/Diffs within project control limits?		X		see Attachment 1	
39. Surrogate recoveries within project control limits?		X		see Attachment 1	
40. Completeness percentage within project limits?	X				

Definitions:			
<b>CCB</b> – Continuing Calibration Blank; <b>CCV</b> – Con	tinuing		
Calibration Verification; <b>COI</b> – Compounds of Int	erest; <b>DCS</b> –		
Detectability Check Sample; ICB – Initial Calibrati	on Blank; ICV		
– Initial Calibration Verification; <b>LCS</b> – Laborator	y Control		
Sample; <b>LCSD</b> – Laboratory Control Sample Dupli	cate; MDL –		
Method Detection Limit; MS/MSD – Matrix Spike	Matrix Spike		
Duplicate; <b>RL</b> – Reporting Limit; <b>RPD</b> – Relative	Percent		
Difference			

#### **COMMENTS**

 $Level\ IV\ Check\ -\ GC/MS\ RRF\ for\ instrument\ calibration\ also\ included\ in\ Level\ III\ checks\ after\ deficiencies\ noted$  in first samples – see attached for deficiencies noted

- 10. Issues noted for all parameters. All are based on laboratory limits, which do not affect flagging for this site.
- 11. All VOC soil samples diluted (med level MeOH extraction and higher) to bracket TA concentrations in calibration range; SVOC sample 04 diluted (10x) to bracket a TA concentration in calibration range, SUs diluted out for this analysis (undiluted analysis also reported and it has acceptable surrogate recoveries)
- 20. Note: QC Batch ID in EDD is for the analytical batch rather than the preparation batch as given for all previous EDDs.
- 24. Actual MDLs are above the target MDLs for the following:

Target MDL (mg/kg) Actual MDL (mg/kg)

 n-Butyl alcohol
 0.0083
 0.0183

 Benzidine
 0.067
 1.65

Actual MQLs are above the target MQLs for the following:

Target MQL (mg/kg) Actual MQL (mg/kg)

Benzidine 1.32 1.65

(Note: For n-Butyl alcohol, both the actual MDL and target MDL are below the comparison criteria. For Benzidine, neither the actual MDL nor the target MDL is below the comparison criteria, which is exceedingly low.)

- 25. The VOC soil samples were analyzed as high level soils (50x dilution), some with additional dilution (up to 200x) for non-detects.
- 28. Results, SDLs, and SQLs are in mg/kg dry-weight or mg/L as requested. However, the user should note that the MDLs and MQLs for organics are in ug/kg or ug/L. This is not accounted for in the Prep Factor or Dilution Factor, except for aqueous SVOC results.
- 32. All analytes routinely spiked by lab are included as per QAPP. This is every TA except n-Butyl alcohol and Benzidine.

#### SET SUMMARY Laboratory Job No.: 211021405

11	Number of Field Samples including Field Duplicates (1)
1	Number of Field MS/MSD Pairs
1	Number of Equipment Rinsate Blanks
0	Number of Field Blanks
2	Number of VOC Trip Blanks
2	Number of Parameters (VOC, SVOC)
145	Number of Target Analytes per Sample
1595	Total Measurements for Field Samples
1311	Number of measurements with no validation qualifier (i.e., "none" in EDD)
93	Number of measurements with UJ flag (for various analytes due to low laboratory and/or matrix spike recovery; poor calibration fit and/or negative drift)
32	Number of measurements with UJ flag and an elevated SDL (for 2-Chloroethylvinyl ether, Acrolein, and n-Butyl alcohol due to poor instrument response, i.e., low RRF)
0	Number of measurements with J- flag
120	Number of measurements with J flag (due solely to result being between the SDL and SQL)
23	Number of measurements with J flag (for 2-Methylnaphthalene, Acenaphthylene, and Isopropylbenzene (Cumene) due to poor field duplicate precision)
4	Number of measurements with J flag (for Pyrene due to result being between the SDL and SQL plus calibration positive drift)
1	Number of measurements with J+ flag (for Pyrene due to calibration positive drift)
0	Number of measurements with U flag
0	Number of measurements with NS flag
11	Number of measurements with R flag (for Benzaldehyde due to extremely low laboratory spike recovery (8.5%), low matrix spike recovery, and calibration negative drift)
100%	Completeness-to-date on a sample level (percentage of removal verification samples with usable data, project goal 90%)
0%	Completeness-to-date on an analyte level (percentage of removal verification samples with usable data for a specific analyte, project goal 80%) – Benzaldehyde
100%	Completeness-to-date on an analyte level (percentage of removal verification samples with usable data for a specific analyte, project goal 80%) – all other target analytes

Usability:

All data is suitable as qualified for the intended use except the eleven results for Benzaldehyde (all non-detects). Data for 2-Chloroethylvinyl ether, Acrolein, and n-Butyl alcohol are usable with an elevated reporting limit for the non-detects (as given in the Electronic Data Deliverable).

Field Sample Identification	Analyte	Data Qualifier	Reason for Qualification
BLIND DUP	2-Chloroethylvinyl ether	UJ	low instrument response (low RRF), elevate SDL for NDs 210x (RV)
BLIND DUP	Acrolein	UJ	low instrument response (low RRF), elevate SDL for NDs 50x (RV); Low ave MS/MSD recovery (13.5%)
BLIND DUP	Benzene	J	result between SDL and SQL
BLIND DUP	Isopropylbenzene (Cumene)	J	poor field duplicate precision (57 RPD)
BLIND DUP	Naphthalene	J	result between SDL and SQL
BLIND DUP	n-Butyl alcohol	UJ	low instrument response (low RRF), elevate SDL for NDs 3x (RV)
BLIND DUP	Styrene	J	result between SDL and SQL
BLIND DUP	Toluene	J	result between SDL and SQL
BLIND DUP	Xylene (total)	J	result between SDL and SQL
BLIND DUP	2,4-Dinitrophenol	UJ	poor calibration fit (%RSD=31); Low ave MS/MSD recovery (58.5%)
BLIND DUP	2-Methylnaphthalene	J	poor field duplicate precision (74 RPD)
BLIND DUP	3,3'-Dichlorobenzidine	UJ	Low ave LCS/LCSD recovery (40.5%)
BLIND DUP	3-Nitroaniline	UJ	Low ave LCS/LCSD recovery (38.5%); Low ave MS/MSD recovery (55.5%)
BLIND DUP	4-Chloroaniline	UJ	Low ave LCS/LCSD recovery (26.5%); Low ave MS/MSD recovery (45%)
BLIND DUP	Acenaphthylene	J	large difference between field duplicate pair (> 3 x MQL)
BLIND DUP	Aniline	UJ	Low ave LCS/LCSD recovery (45.5%)
BLIND DUP	Anthracene	J	result between SDL and SQL
BLIND DUP	Benzaldehyde	R	Extremely low ave LCS/LCSD recovery (8.5%); Low ave MS/MSD recovery (9%); calibration drift (%D= -27)
BLIND DUP	Benzidine	UJ	poor calibration fit (%RSD=39); calibration drift (%D= -24)
BLIND DUP	Benzoic acid	UJ	calibration drift (%D= -21); Low ave MS/MSD recovery (51.5%)
BLIND DUP	Biphenyl	J	result between SDL and SQL
BLIND DUP	Diethyl phthalate	J	result between SDL and SQL
BLIND DUP	Fluoranthene	J	result between SDL and SQL
BLIND DUP	m,p-Cresol	J	result between SDL and SQL
BLIND DUP	o-Cresol	J	result between SDL and SQL
BLIND DUP	Pyridine	UJ	Low ave MS/MSD recovery (59%)
NC-0-0.3	1,1,1-Trichloroethane	J	result between SDL and SQL
NC-0-0.3	1,2,4-Trimethylbenzene	J	result between SDL and SQL
NC-0-0.3	1,3,5-Trimethylbenzene	J	result between SDL and SQL
NC-0-0.3	2-Chloroethylvinyl ether	UJ	low instrument response (low RRF), elevate SDL for NDs 210x (RV)
NC-0-0.3	Acrolein	UJ	low instrument response (low RRF), elevate SDL for NDs 50x (RV); Low ave MS/MSD recovery (13.5%)
NC-0-0.3	Benzene	J	result between SDL and SQL
NC-0-0.3	Cyclohexane	J	result between SDL and SQL
NC-0-0.3	Isopropylbenzene (Cumene)	J	poor field duplicate precision (57 RPD)
NC-0-0.3	m,p-Xylene	J	result between SDL and SQL
NC-0-0.3	Methylene chloride	J	result between SDL and SQL
NC-0-0.3	n-Butyl alcohol	UJ	low instrument response (low RRF), elevate SDL for NDs 3x (RV)
NC-0-0.3	o-Xylene	J	result between SDL and SQL
NC-0-0.3	Toluene	J	result between SDL and SQL
NC-0-0.3	Xylene (total)	J	result between SDL and SQL
NC-0-0.3	2,4-Dinitrophenol	UJ	poor calibration fit (%RSD=31); Low ave MS/MSD recovery (58.5%)
NC-0-0.3	2-Methylnaphthalene	J	poor field duplicate precision (74 RPD)
NC-0-0.3	3,3'-Dichlorobenzidine	UJ	Low ave LCS/LCSD recovery (40.5%)

Field Sample Identification	Analyte	Data Qualifier	Reason for Qualification
NC-0-0.3	3-Nitroaniline	UJ	Low ave LCS/LCSD recovery (38.5%); Low ave MS/MSD recovery (55.5%)
NC-0-0.3	4-Chloroaniline	UJ	Low ave LCS/LCSD recovery (26.5%); Low ave MS/MSD recovery (45%)
NC-0-0.3	Acenaphthene	J	result between SDL and SQL
NC-0-0.3	Acenaphthylene	J	large difference between field duplicate pair (> 3 x MQL); result between SDL and SQL
NC-0-0.3	Acetophenone	J	result between SDL and SQL
NC-0-0.3	Aniline	UJ	Low ave LCS/LCSD recovery (45.5%)
NC-0-0.3	Benzaldehyde	R	Extremely low ave LCS/LCSD recovery (8.5%); Low ave MS/MSD recovery (9%); calibration drift (%D= -27)
NC-0-0.3	Benzidine	UJ	poor calibration fit (%RSD=39); calibration drift (%D=-24)
NC-0-0.3	Benzo(b)fluoranthene	J	result between SDL and SQL
NC-0-0.3	Benzo(g,h,i)perylene	J	result between SDL and SQL
NC-0-0.3	Benzo(k)fluoranthene	J	result between SDL and SQL
NC-0-0.3	Benzoic acid	UJ	calibration drift (%D= -21); Low ave MS/MSD recovery (51.5%)
NC-0-0.3	Biphenyl	J	result between SDL and SQL
NC-0-0.3	Chrysene	J	result between SDL and SQL
NC-0-0.3	Indeno(1,2,3-cd)pyrene	J	result between SDL and SQL
NC-0-0.3	Pyrene	J	calibration drift (%D= 27); result between SDL and SQL
NC-0-0.3	Pyridine	UJ	Low ave MS/MSD recovery (59%)
SC-E	1,2,4-Trimethylbenzene	J	result between SDL and SQL
SC-E	2-Chloroethylvinyl ether	UJ	low instrument response (low RRF), elevate SDL for NDs 210x (RV)
SC-E	Acrolein	UJ	low instrument response (low RRF), elevate SDL for NDs 50x (RV); Low ave MS/MSD recovery (13.5%)
SC-E	Cyclohexane	J	result between SDL and SQL
SC-E	Ethylbenzene	J	result between SDL and SQL
SC-E	Isopropylbenzene (Cumene)	J	poor field duplicate precision (57 RPD)
SC-E	m,p-Xylene	J	result between SDL and SQL
SC-E	Naphthalene	J	result between SDL and SQL
SC-E	n-Butyl alcohol	UJ	low instrument response (low RRF), elevate SDL for NDs 3x (RV)
SC-E	o-Xylene	J	result between SDL and SQL
SC-E	Xylene (total)	J	result between SDL and SQL
SC-E	2,4-Dinitrophenol	UJ	poor calibration fit (%RSD=31); Low ave MS/MSD recovery (58.5%)
SC-E	2-Methylnaphthalene	J	poor field duplicate precision (74 RPD); result between SDL and SQL
SC-E	3,3'-Dichlorobenzidine	UJ	Low ave LCS/LCSD recovery (40.5%)
SC-E	3-Nitroaniline	UJ	Low ave LCS/LCSD recovery (38.5%); Low ave MS/MSD recovery (55.5%)
SC-E	4-Chloroaniline	UJ	Low ave LCS/LCSD recovery (26.5%); Low ave MS/MSD recovery (45%)
SC-E	Acenaphthylene	UJ	large difference between field duplicate pair (> 3 x MQL)
SC-E	Aniline	UJ	Low ave LCS/LCSD recovery (45.5%)
SC-E	Anthracene	J	result between SDL and SQL
SC-E	Benzaldehyde	R	Extremely low ave LCS/LCSD recovery (8.5%); Low ave MS/MSD recovery (9%); calibration drift (%D= -27)
SC-E	Benzidine	UJ	poor calibration fit (%RSD=39); calibration drift (%D= -24)
SC-E	Benzo(a)anthracene	J	result between SDL and SQL
SC-E	Benzo(a)pyrene	J	result between SDL and SQL
SC-E	Benzo(b)fluoranthene	J	result between SDL and SQL
SC-E	Benzo(g,h,i)perylene	J	result between SDL and SQL
SC-E	Benzo(k)fluoranthene	J	result between SDL and SQL

Field Sample Identification	Analyte	Data Qualifier	Reason for Qualification
SC-E	Benzoic acid	UJ	calibration drift (%D= -21); Low ave MS/MSD recovery (51.5%)
SC-E	Chrysene	J	result between SDL and SQL
SC-E	Fluoranthene	J	result between SDL and SQL
SC-E	Fluorene	J	result between SDL and SQL
SC-E	Indeno(1,2,3-cd)pyrene	J	result between SDL and SQL
SC-E	Phenanthrene	J	result between SDL and SQL
SC-E	Pyrene	J	calibration drift (%D= 27); result between SDL and SQL
SC-E	Pyridine	UJ	Low ave MS/MSD recovery (59%)
SC-W	1,2,4-Trimethylbenzene	J	result between SDL and SQL
SC-W	1,3,5-Trimethylbenzene	J	result between SDL and SQL
SC-W	2-Chloroethylvinyl ether	UJ	low instrument response (low RRF), elevate SDL for NDs 210x (RV)
SC-W	Acrolein	UJ	low instrument response (low RRF), elevate SDL for NDs 50x (RV); Low ave MS/MSD recovery (13.5%)
SC-W	Benzene	J	result between SDL and SQL
SC-W	Cyclohexane	J	result between SDL and SQL
SC-W	Ethylbenzene	J	result between SDL and SQL
SC-W	Isopropylbenzene (Cumene)	J	poor field duplicate precision (57 RPD)
SC-W	m,p-Xylene	J	result between SDL and SQL
SC-W	Naphthalene	J	result between SDL and SQL
SC-W	n-Butyl alcohol	UJ	low instrument response (low RRF), elevate SDL for NDs 3x (RV)
SC-W	o-Xylene	J	result between SDL and SQL
SC-W	Xylene (total)	J	result between SDL and SQL
SC-W	2,4-Dinitrophenol	UJ	poor calibration fit (%RSD=31); Low ave MS/MSD recovery (58.5%)
SC-W	3,3'-Dichlorobenzidine	UJ	Low ave LCS/LCSD recovery (40.5%)
SC-W	3-Nitroaniline	UJ	Low ave LCS/LCSD recovery (38.5%); Low ave MS/MSD recovery (55.5%)
SC-W	4-Chloroaniline	UJ	Low ave LCS/LCSD recovery (26.5%); Low ave MS/MSD recovery (45%)
SC-W	Acenaphthylene	J	large difference between field duplicate pair (> 3 x MQL); result between SDL and SQL
SC-W	Aniline	UJ	Low ave LCS/LCSD recovery (45.5%)
SC-W	Anthracene	J	result between SDL and SQL
SC-W	Benzaldehyde	R	Extremely low ave LCS/LCSD recovery (8.5%); Low ave MS/MSD recovery (9%); calibration drift (%D= -27)
SC-W	Benzidine	UJ	poor calibration fit (%RSD=39); calibration drift (%D=-24)
SC-W	Benzo(b)fluoranthene	J	result between SDL and SQL
SC-W	Benzo(g,h,i)perylene	J	result between SDL and SQL
SC-W	Benzo(k)fluoranthene	J	result between SDL and SQL
SC-W	Benzoic acid	UJ	calibration drift (%D= -21); Low ave MS/MSD recovery (51.5%)
SC-W	Chrysene	J	result between SDL and SQL
SC-W	Diethyl phthalate	J	result between SDL and SQL
SC-W	Fluoranthene	J	result between SDL and SQL
SC-W	Indeno(1,2,3-cd)pyrene	J	result between SDL and SQL
SC-W	Pyrene	J	calibration drift (%D= 27); result between SDL and SQL
SC-W	Pyridine	UJ	Low ave MS/MSD recovery (59%)
T-15-F	2-Chloroethylvinyl ether	UJ	low instrument response (low RRF), elevate SDL for NDs 210x (RV)
T-15-F	Acrolein	UJ	low instrument response (low RRF), elevate SDL for NDs 50x (RV); Low ave MS/MSD recovery (13.5%)
T-15-F	cis-1,2-Dichloroethene	J	result between SDL and SQL
T-15-F	n-Butyl alcohol	UJ	low instrument response (low RRF), elevate SDL for NDs 3x (RV)
T-15-F	Trichloroethene	J	result between SDL and SQL

Field Sample Identification	Analyte	Data Qualifier	Reason for Qualification
T-15-F	2,4-Dinitrophenol	UJ	poor calibration fit (%RSD=31); Low ave MS/MSD recovery (58.5%)
T-15-F	3,3'-Dichlorobenzidine	UJ	Low ave LCS/LCSD recovery (40.5%)
T-15-F	3-Nitroaniline	UJ	Low ave LCS/LCSD recovery (38.5%); Low ave MS/MSD recovery (55.5%)
T-15-F	4-Chloroaniline	UJ	Low ave LCS/LCSD recovery (26.5%); Low ave MS/MSD recovery (45%)
T-15-F	Acenaphthylene	UJ	large difference between field duplicate pair (> 3 x MQL)
T-15-F	Aniline	UJ	Low ave LCS/LCSD recovery (45.5%)
T-15-F	Benzaldehyde	R	Extremely low ave LCS/LCSD recovery (8.5%); Low ave MS/MSD recovery (9%); calibration drift (%D= -27)
T-15-F	Benzidine	UJ	poor calibration fit (%RSD=39); calibration drift (%D= -24)
T-15-F	Benzoic acid	UJ	calibration drift (%D= -21); Low ave MS/MSD recovery (51.5%)
T-15-F	Fluoranthene	J	result between SDL and SQL
T-15-F	Pyridine	UJ	Low ave MS/MSD recovery (59%)
T-21-F	1,2,4-Trimethylbenzene	J	result between SDL and SQL
T-21-F	2-Chloroethylvinyl ether	UJ	low instrument response (low RRF), elevate SDL for NDs 210x (RV)
T-21-F	Acrolein	UJ	low instrument response (low RRF), elevate SDL for NDs 50x (RV); Low ave MS/MSD recovery (13.5%)
T-21-F	cis-1,2-Dichloroethene	J	result between SDL and SQL
T-21-F	Cyclohexane	J	result between SDL and SQL
T-21-F	Hexachlorobutadiene	J	result between SDL and SQL
T-21-F	Isopropylbenzene (Cumene)	J	poor field duplicate precision (57 RPD); result between SDL and SQL
T-21-F	Naphthalene	J	result between SDL and SQL
T-21-F	n-Butyl alcohol	UJ	low instrument response (low RRF), elevate SDL for NDs 3x (RV)
T-21-F	Trichloroethene	J	result between SDL and SQL
T-21-F	2,4-Dinitrophenol	UJ	poor calibration fit (%RSD=31); Low ave MS/MSD recovery (58.5%)
T-21-F	2-Methylnaphthalene	J	poor field duplicate precision (74 RPD)
T-21-F	3,3'-Dichlorobenzidine	UJ	Low ave LCS/LCSD recovery (40.5%)
T-21-F	3-Nitroaniline	UJ	Low ave LCS/LCSD recovery (38.5%); Low ave MS/MSD recovery (55.5%)
T-21-F	4-Chloroaniline	UJ	Low ave LCS/LCSD recovery (26.5%); Low ave MS/MSD recovery (45%)
T-21-F	Acenaphthylene	J	large difference between field duplicate pair (> 3 x MQL); result between SDL and SQL
T-21-F	Aniline	UJ	Low ave LCS/LCSD recovery (45.5%)
T-21-F	Benzaldehyde	R	Extremely low ave LCS/LCSD recovery (8.5%); Low ave MS/MSD recovery (9%); calibration drift (%D= -27)
T-21-F	Benzidine	UJ	poor calibration fit (%RSD=39); calibration drift (%D= -24)
T-21-F	Benzo(b)fluoranthene	J	result between SDL and SQL
T-21-F	Benzo(g,h,i)perylene	J	result between SDL and SQL
T-21-F	Benzo(k)fluoranthene	J	result between SDL and SQL
T-21-F	Benzoic acid	UJ	calibration drift (%D= -21); Low ave MS/MSD recovery (51.5%)
T-21-F	Biphenyl	J	result between SDL and SQL
T-21-F	Chrysene	J	result between SDL and SQL
T-21-F	Fluoranthene	J	result between SDL and SQL
T-21-F	Indeno(1,2,3-cd)pyrene	J	result between SDL and SQL
T-21-F	Pyrene	J+	calibration drift (%D= 27)
T-21-F	Pyridine	UJ	Low ave MS/MSD recovery (59%)
T-2-WEST	Acrolein	UJ	low instrument response (low RRF), elevate SDL for NDs 13x (RV); Low ave MS/MSD recovery (13.5%)
T-2-WEST	Isopropylbenzene (Cumene)	J	poor field duplicate precision (57 RPD)

Field Sample Identification	Analyte	Data Qualifier	Reason for Qualification
T-2-WEST	n-Butyl alcohol	UJ	low instrument response (low RRF), elevate SDL for NDs 1.4x (RV)
T-2-WEST	Vinyl acetate	UJ	calibration drift (%D= -27)
T-2-WEST	2,4-Dinitrophenol	UJ	poor calibration fit (%RSD=31); Low ave MS/MSD recovery (58.5%)
T-2-WEST	3,3'-Dichlorobenzidine	UJ	Low ave LCS/LCSD recovery (40.5%)
T-2-WEST	3-Nitroaniline	UJ	Low ave LCS/LCSD recovery (38.5%); Low ave MS/MSD recovery (55.5%)
T-2-WEST	4-Chloroaniline	UJ	Low ave LCS/LCSD recovery (26.5%); Low ave MS/MSD recovery (45%)
T-2-WEST	Acenaphthylene	UJ	large difference between field duplicate pair (> 3 x MQL)
T-2-WEST	Aniline	UJ	Low ave LCS/LCSD recovery (45.5%)
T-2-WEST	Benzaldehyde	R	Extremely low ave LCS/LCSD recovery (8.5%); Low ave MS/MSD recovery (9%); calibration drift (%D= -27)
T-2-WEST	Benzidine	UJ	poor calibration fit (%RSD=39); calibration drift (%D= -24)
T-2-WEST	Benzoic acid	UJ	calibration drift (%D= -21); Low ave MS/MSD recovery (51.5%)
T-2-WEST	Biphenyl	J	result between SDL and SQL
T-2-WEST	Di-n-butyl phthalate	J	result between SDL and SQL
T-2-WEST	Fluorene	J	result between SDL and SQL
T-2-WEST	Phenanthrene	J	result between SDL and SQL
T-2-WEST	Pyridine	UJ	Low ave MS/MSD recovery (59%)
T-6-EAST	2-Chloroethylvinyl ether	UJ	low instrument response (low RRF), elevate SDL for NDs 210x (RV)
T-6-EAST	Acrolein	UJ	low instrument response (low RRF), elevate SDL for NDs 50x (RV); Low ave MS/MSD recovery (13.5%)
T-6-EAST	Benzene	J	result between SDL and SQL
T-6-EAST	Isopropylbenzene (Cumene)	J	poor field duplicate precision (57 RPD)
T-6-EAST	n-Butyl alcohol	UJ	low instrument response (low RRF), elevate SDL for NDs 3x (RV)
T-6-EAST	Styrene	J	result between SDL and SQL
T-6-EAST	Toluene	J	result between SDL and SQL
T-6-EAST	2,4-Dinitrophenol	UJ	poor calibration fit (%RSD=31); Low ave MS/MSD recovery (58.5%)
T-6-EAST	2-Methylnaphthalene	J	poor field duplicate precision (74 RPD)
T-6-EAST	3,3'-Dichlorobenzidine	UJ	Low ave LCS/LCSD recovery (40.5%)
T-6-EAST	3-Nitroaniline	UJ	Low ave LCS/LCSD recovery (38.5%); Low ave MS/MSD recovery (55.5%)
T-6-EAST	4-Chloroaniline	UJ	Low ave LCS/LCSD recovery (26.5%); Low ave MS/MSD recovery (45%)
T-6-EAST	Acenaphthylene	J	large difference between field duplicate pair (> 3 x MQL)
T-6-EAST	Aniline	UJ	Low ave LCS/LCSD recovery (45.5%)
T-6-EAST	Anthracene	J	result between SDL and SQL
T-6-EAST	Benzaldehyde	R	Extremely low ave LCS/LCSD recovery (8.5%); Low ave MS/MSD recovery (9%); calibration drift (%D= -27)
T-6-EAST	Benzidine	UJ	poor calibration fit (%RSD=39); calibration drift (%D=-24)
T-6-EAST	Benzoic acid	UJ	calibration drift (%D= -21); Low ave MS/MSD recovery (51.5%)
T-6-EAST	Biphenyl	J	result between SDL and SQL
T-6-EAST	Fluoranthene	J	result between SDL and SQL
T-6-EAST	m,p-Cresol	J	result between SDL and SQL
T-6-EAST	o-Cresol	J	result between SDL and SQL
T-6-EAST	Pyrene	J	calibration drift (%D= 27); result between SDL and SQL
T-6-EAST	Pyridine	UJ	Low ave MS/MSD recovery (59%)
T-6-FLOOR	2-Chloroethylvinyl ether	UJ	low instrument response (low RRF), elevate SDL for NDs 210x (RV)
T-6-FLOOR	Acrolein	UJ	low instrument response (low RRF), elevate SDL for NDs 50x (RV); Low ave MS/MSD recovery (13.5%)

Field Sample Identification	Analyte	Data Qualifier	Reason for Qualification
T-6-FLOOR	Isopropylbenzene (Cumene)	J	poor field duplicate precision (57 RPD)
T-6-FLOOR	n-Butyl alcohol	UJ	low instrument response (low RRF), elevate SDL for NDs 3x (RV)
T-6-FLOOR	tert-Butyl methyl ether (MTBE)	J	result between SDL and SQL
T-6-FLOOR	2,4-Dinitrophenol	UJ	poor calibration fit (%RSD=31); Low ave MS/MSD recovery (58.5%)
T-6-FLOOR	3,3'-Dichlorobenzidine	UJ	Low ave LCS/LCSD recovery (40.5%)
T-6-FLOOR	3-Nitroaniline	UJ	Low ave LCS/LCSD recovery (38.5%); Low ave MS/MSD recovery (55.5%)
T-6-FLOOR	4-Chloroaniline	UJ	Low ave LCS/LCSD recovery (26.5%); Low ave MS/MSD recovery (45%)
T-6-FLOOR	Acenaphthylene	UJ	large difference between field duplicate pair (> 3 x MQL)
T-6-FLOOR	Acetophenone	J	result between SDL and SQL
T-6-FLOOR	Aniline	UJ	Low ave LCS/LCSD recovery (45.5%)
T-6-FLOOR	Benzaldehyde	R	Extremely low ave LCS/LCSD recovery (8.5%); Low ave MS/MSD recovery (9%); calibration drift (%D= -27)
T-6-FLOOR	Benzidine	UJ	poor calibration fit (%RSD=39); calibration drift (%D= -24)
T-6-FLOOR	Benzoic acid	UJ	calibration drift (%D= -21); Low ave MS/MSD recovery (51.5%)
T-6-FLOOR	Di-n-butyl phthalate	J	result between SDL and SQL
T-6-FLOOR	Pyridine	UJ	Low ave MS/MSD recovery (59%)
T-6-NORTH	1,1,1-Trichloroethane	J	result between SDL and SQL
T-6-NORTH	1,2,4-Trimethylbenzene	J	result between SDL and SQL
T-6-NORTH	1,3,5-Trimethylbenzene	J	result between SDL and SQL
T-6-NORTH	2-Chloroethylvinyl ether	UJ	low instrument response (low RRF), elevate SDL for NDs 210x (RV)
T-6-NORTH	Acrolein	UJ	low instrument response (low RRF), elevate SDL for NDs 50x (RV); Low ave MS/MSD recovery (13.5%)
T-6-NORTH	Cyclohexane	J	result between SDL and SQL
T-6-NORTH	Isopropylbenzene (Cumene)	J	poor field duplicate precision (57 RPD); result between SDL and SQL
T-6-NORTH	n-Butyl alcohol	UJ	low instrument response (low RRF), elevate SDL for NDs 3x (RV)
T-6-NORTH	n-Propylbenzene	J	result between SDL and SQL
T-6-NORTH	Toluene	J	result between SDL and SQL
T-6-NORTH	Trichloroethene	J	result between SDL and SQL
T-6-NORTH	2,4-Dinitrophenol	UJ	poor calibration fit (%RSD=31); Low ave MS/MSD recovery (58.5%)
T-6-NORTH	3,3'-Dichlorobenzidine	UJ	Low ave LCS/LCSD recovery (40.5%)
T-6-NORTH	3-Nitroaniline	UJ	Low ave LCS/LCSD recovery (38.5%); Low ave MS/MSD recovery (55.5%)
T-6-NORTH	4-Chloroaniline	UJ	Low ave LCS/LCSD recovery (26.5%); Low ave MS/MSD recovery (45%)
T-6-NORTH	Acenaphthylene	J	large difference between field duplicate pair (> 3 x MQL); result between SDL and SQL
T-6-NORTH	Aniline	UJ	Low ave LCS/LCSD recovery (45.5%)
T-6-NORTH	Benzaldehyde	R	Extremely low ave LCS/LCSD recovery (8.5%); Low ave MS/MSD recovery (9%); calibration drift (%D= -27)
T-6-NORTH	Benzidine	UJ	poor calibration fit (%RSD=39); calibration drift (%D= -24)
T-6-NORTH	Benzo(g,h,i)perylene	J	result between SDL and SQL
T-6-NORTH	Benzoic acid	UJ	calibration drift (%D= -21); Low ave MS/MSD recovery (51.5%)
T-6-NORTH	Chrysene	J	result between SDL and SQL
T-6-NORTH	Diethyl phthalate	J	result between SDL and SQL
T-6-NORTH	Fluoranthene	J	result between SDL and SQL
T-6-NORTH	Phenanthrene	J	result between SDL and SQL
T-6-NORTH	Phenol	J	result between SDL and SQL
T-6-NORTH	Pyridine	UJ	Low ave MS/MSD recovery (59%)

Field Sample Identification	Analyte	Data Qualifier	Reason for Qualification
T-6-SOUTH	2-Chloroethylvinyl ether	UJ	low instrument response (low RRF), elevate SDL for NDs 210x (RV)
T-6-SOUTH	Acrolein	UJ	low instrument response (low RRF), elevate SDL for NDs 50x (RV); Low ave MS/MSD recovery (13.5%)
T-6-SOUTH	Benzene	J	result between SDL and SQL
T-6-SOUTH	Chloroform	J	result between SDL and SQL
T-6-SOUTH	Isopropylbenzene (Cumene)	J	poor field duplicate precision (57 RPD)
T-6-SOUTH	Naphthalene	J	result between SDL and SQL
T-6-SOUTH	n-Butyl alcohol	UJ	low instrument response (low RRF), elevate SDL for NDs 3x (RV)
T-6-SOUTH	Styrene	J	result between SDL and SQL
T-6-SOUTH	Toluene	J	result between SDL and SQL
T-6-SOUTH	Xylene (total)	J	result between SDL and SQL
T-6-SOUTH	2,4-Dinitrophenol	UJ	poor calibration fit (%RSD=31); Low ave MS/MSD recovery (58.5%)
T-6-SOUTH	2-Methylnaphthalene	J	poor field duplicate precision (74 RPD)
T-6-SOUTH	3,3'-Dichlorobenzidine	UJ	Low ave LCS/LCSD recovery (40.5%)
T-6-SOUTH	3-Nitroaniline	UJ	Low ave LCS/LCSD recovery (38.5%); Low ave MS/MSD recovery (55.5%)
T-6-SOUTH	4-Chloroaniline	UJ	Low ave LCS/LCSD recovery (26.5%); Low ave MS/MSD recovery (45%)
T-6-SOUTH	Acenaphthene	J	result between SDL and SQL
T-6-SOUTH	Acenaphthylene	J	large difference between field duplicate pair (> 3 x MQL); result between SDL and SQL
T-6-SOUTH	Aniline	UJ	Low ave LCS/LCSD recovery (45.5%)
T-6-SOUTH	Benzaldehyde	R	Extremely low ave LCS/LCSD recovery (8.5%); Low ave MS/MSD recovery (9%); calibration drift (%D= -27)
T-6-SOUTH	Benzidine	UJ	poor calibration fit (%RSD=39); calibration drift (%D= -24)
T-6-SOUTH	Benzoic acid	UJ	calibration drift (%D= -21); Low ave MS/MSD recovery (51.5%)
T-6-SOUTH	Biphenyl	J	result between SDL and SQL
T-6-SOUTH	Di-n-butyl phthalate	J	result between SDL and SQL
T-6-SOUTH	Fluoranthene	J	result between SDL and SQL
T-6-SOUTH	m,p-Cresol	J	result between SDL and SQL
T-6-SOUTH	o-Cresol	J	result between SDL and SQL
T-6-SOUTH	Pyridine	UJ	Low ave MS/MSD recovery (59%)

#### ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type _code	Analytical _Method	Total_or_ dissolved	Matrix	Parameter	Valid_qualifier	Result_type _code	Prep_date	Prep_time	Analysis _Date	Analysis _Time		QC_ Batch
x	a8914	ICAL2	SW8260B			n-Butyl alcohol	J / UJ to RRs/NDs	TRG			1/14/2011		low instrument response (low RRF), elevate SDL for NDs 3x (TR)	
х	a8933	ICAL1	SW8260B			Acrolein	J / UJ to RRs/NDs	TRG			11/14/2011		low instrument response (low RRF), elevate SDL for NDs 50x (TR)	
X	a8933	ICAL1	SW8260B			2-Chloroethyl vinyl ether	J / UJ to RRs/NDs	TRG			11/14/2011		low instrument response (low RRF), elevate SDL for NDs 210x (TR)	
X	k9746	ICAL2	SW8260B			n-Butyl alcohol	J / UJ to RRs/NDs	TRG			1/7/2011		low instrument response (low RRF), elevate SDL for NDs 1.4x (TR)	
Х	k9758	ICAL1	SW8260B			Acrolein	J / UJ to RRs/NDs	TRG			1/7/2011	18:08	low instrument response (low RRF), elevate SDL for NDs 13x (TR)	
х	a8960	CCV1	SW8260B			Acrolein	J+ to RRs (none)	VOC			1/16/2011	9:23	calibration drift (%D= 24)	
x	a8960	CCV1	SW8260B			2-Hexanone	J+ to RRs (none)	VOC			1/16/2011	9:23	calibration drift (%D=21)	
х	k9905	CCV1	SW8260B			Vinyl acetate	J- / UJ to RRs/NDs	VOC			1/18/2011	13:19	calibration drift (%D= -27)	
T-15-F MSD	21101140503	MSD	SW8260B		S	Acrolein	J- / UJ to RRs/NDs	TRG			1/16/2011	14:25	Low ave MS/MSD recovery (13.5%)	449013
T-15-F MSD	21101140503	MSD	SW8260B		S	Acrolein	J to RRs (none)	TRG			1/16/2011	14:25	poor MS/MSD precision (80 RPD)	449013
T-15-F MSD	21101140503	MSD	SW8260B		S	Chloroethane	J to RRs (none)	TRG			1/16/2011	14:25	poor MS/MSD precision (42 RPD)	449013
BLIND DUP	21101140511	FLDDUP	SW8260B		S	Isopropylbenzene (Cumene)	J to RRs	TRG			1/16/2011	19:46	poor field duplicate precision (57 RPD)	449013
х	e7897	ICAL1	SW8270C			2,4-Dinitrophenol	J / UJ to RRs/NDs	TRG			1/12/2011	8:21	poor calibration fit (%RSD=31)	
х	e7897	ICAL1	SW8270C			Benzidine	J / UJ to RRs/NDs	TRG			1/12/2011	8:21	poor calibration fit (%RSD=39)	
х	e7972	CCV1	SW8270C			Benzoic acid	J- / UJ to RRs/NDs	SVOC			1/14/2011	14:42	calibration drift (%D= -21)	
x	e7972	CCV1	SW8270C			Hexachlorocyclopentadiene	J+ to RRs (none)	SVOC			1/14/2011	14:42	calibration drift (%D=24)	
х	e7972	CCV1	SW8270C			Benzidine	J- / UJ to RRs/NDs	SVOC			1/14/2011	14:42	calibration drift (% D= -24)	
x	e8008	CCV1	SW8270C			Hexachlorocyclopentadiene	J+ to RRs (none)	SVOC			1/17/2011	8:28	calibration drift (%D= 25)	
x	e8008	CCV1	SW8270C			Benzidine	J- / UJ to RRs/NDs	SVOC			1/17/2011	8:28	calibration drift (%D= -44)	

#### ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type _code	Analytical _Method	Total_or_ dissolved	Matrix	Parameter	Valid_qualifier	Result_type _code	Prep_date	Prep_time	Analysis _Date	Analysis _Time	QC_comment	QC_ Batch
X	e8008	CCV1	SW8270C			Pyrene	J+ to RRs	SVOC			1/17/2011	8:28	calibration drift (%D= 27)	
x	e8008	CCV1	SW8270C			Benzaldehyde	J- / UJ to RRs/NDs	SVOC			1/17/2011	8:28	calibration drift (%D= -27)	
LCSD for HBN 448916 [EXTO/2751	912492	LCSD	SW8270C		S	3,3'-Dichlorobenzidine	J- / UJ to RRs/NDs	TRG	1/14/2011	10:30	1/14/2011	16:39	Low ave LCS/LCSD recovery (40.5%)	448983
LCSD for HBN 448916 [EXTO/2751	912492	LCSD	SW8270C		S	3-Nitroaniline	J- / UJ to RRs/NDs	TRG	1/14/2011	10:30	1/14/2011	16:39	Low ave LCS/LCSD recovery (38.5%)	448983
LCSD for HBN 448916 [EXTO/2751	912492	LCSD	SW8270C		S	4-Chloroaniline	J- / UJ to RRs/NDs	TRG	1/14/2011	10:30	1/14/2011	16:39	Low ave LCS/LCSD recovery (26.5%)	448983
LCSD for HBN 448916 [EXTO/2751	912492	LCSD	SW8270C		S	Aniline	J- / UJ to RRs/NDs	TRG	1/14/2011	10:30	1/14/2011	16:39	Low ave LCS/LCSD recovery (45.5%)	448983
LCSD for HBN 448916 [EXTO/2751	912492	LCSD	SW8270C		S	Benzaldehyde	J- / R to RRs/NDs	TRG	1/14/2011	10:30	1/14/2011	16:39	Extremely low ave LCS/LCSD recovery (8.5%)	448983
T-15-F MSD	21101140503	MSD	SW8270C		S	2,4-Dinitrophenol	J- / UJ to RRs/NDs	TRG	1/14/2011	10:30	1/14/2011	17:29	Low ave MS/MSD recovery (58.5%)	448983
T-15-F MSD	21101140503	MSD	SW8270C		S	3-Nitroaniline	J- / UJ to RRs/NDs	TRG	1/14/2011	10:30	1/14/2011	17:29	Low ave MS/MSD recovery (55.5%)	448983
T-15-F MSD	21101140503	MSD	SW8270C		S	4-Chloroaniline	J- / UJ to RRs/NDs	TRG	1/14/2011	10:30	1/14/2011	17:29	Low ave MS/MSD recovery (45%)	448983
T-15-F MSD	21101140503	MSD	SW8270C		S	Benzaldehyde	J- / UJ to RRs/NDs	TRG	1/14/2011	10:30	1/14/2011	17:29	Low ave MS/MSD recovery (9%)	448983
T-15-F MSD	21101140503	MSD	SW8270C		S	Benzoic acid	J- / UJ to RRs/NDs	TRG	1/14/2011	10:30	1/14/2011	17:29	Low ave MS/MSD recovery (51.5%)	448983
T-15-F MSD	21101140503	MSD	SW8270C		S	Pyridine	J- / UJ to RRs/NDs	TRG	1/14/2011	10:30	1/14/2011	17:29	Low ave MS/MSD recovery (59%)	448983
LCSD for HBN 448916 [EXTO/2751	912492	LCSD	SW8270C		S	Aniline	J to RRs (none)	TRG	1/14/2011	10:30	1/14/2011	16:39	poor LCS/LCSD precision (62 RPD)	448983
T-21-F	21101140504	SMP	SW8270C		S	2-Fluorobiphenyl	none (surrogate diluted out)	SUR	1/14/2011	10:30	1/17/2011	8:56	extremely low SU recovery (0%)	449083
T-21-F	21101140504	SMP	SW8270C		S	2-Fluorophenol	none (surrogate diluted out)	SUR	1/14/2011	10:30	1/17/2011	8:56	extremely low SU recovery (0%)	449083
T-21-F	21101140504	SMP	SW8270C		S	Terphenyl-d14	none (surrogate diluted out)	SUR	1/14/2011	10:30	1/17/2011	8:56	extremely low SU recovery (0%)	449083
T-21-F	21101140504	SMP	SW8270C		S	Nitrobenzene-d5	none (surrogate diluted out)	SUR	1/14/2011	10:30	1/17/2011	8:56	extremely low SU recovery (0%)	449083
T-21-F	21101140504	SMP	SW8270C		S	2,4,6-Tribromophenol	none (surrogate diluted out)	SUR	1/14/2011	10:30	1/17/2011	8:56	extremely low SU recovery (0%)	449083

#### ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type code	Analytical Method	Total_or_ dissolved	Matrix	Parameter	Valid_qualifier		Prep_date	Prep_time	Analysis Date	Analysis Time		QC_ Batch
		_code	_Method	dissolved				_code			_Date	_1 me		Datcii
T-21-F	21101140504	SMP	SW8270C		S	Phenol-d5	none (surrogate diluted out)	SUR	1/14/2011	10:30	1/17/2011	8:56	extremely low SU recovery (0%)	449083
SC-E	21101140513	SMP	SW8270C		S	2,4,6-Tribromophenol	none (only one of multiple surrogates deficient)	SUR	1/14/2011	10:30	1/14/2011	20:16	low SU recovery (59%)	448983
EQUIPMENT BLANK	21101140514	EQBK	SW8270C		W	Phenol-d5	none (only one of multiple surrogates deficient)	SUR	1/14/2011	11:35	1/14/2011	15:49	low SU recovery (41%)	448983
BLIND DUP	21101140511	FLDDUP	SW8270C		S	2-Methylnaphthalene	J to RRs	TRG	1/14/2011	10:30	1/14/2011		poor field duplicate precision (74 RPD)	448983
BLIND DUP	21101140511	FLDDUP	SW8270C		S	Acenaphthylene	J / UJ to RRs/NDs	TRG	1/14/2011	10:30	1/14/2011		large difference between field duplicate pair (> 3 x MQL)	448983